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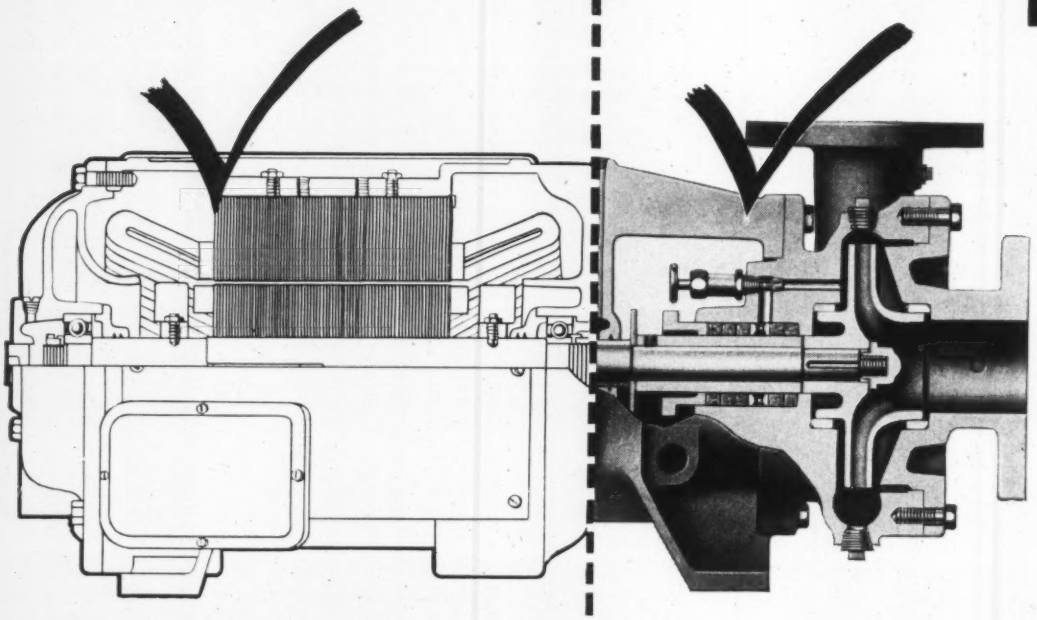

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News of the Week

ENGINEERING NEWS-RECORD • SEPTEMBER 26, 1946 • VOLUME 137 • NUMBER 13

Road construction delayed by scarcity of materials

Public Roads Administration asks state highway departments to confine new work to badly needed projects—Move will lessen conflict with housing

Such unsatisfactory progress is being made on much of the approved federal-highway program, due to scarcities of construction materials and labor, that Thomas H. MacDonald, Commissioner of Public Roads, has asked the state highway departments to confine their future operations to the most urgently needed work. Mr. MacDonald said also that such curtailment of highway work would minimize conflict with the housing program.

When the Office of War Mobilization Reconversion ordered a drastic curtailment of all federally financed construction operations in order to free construction materials and labor for the housing program, highway construction projects that had been approved by the Public Roads Administration were exempted from the provisions of that order. At that time, 1,592 federal-aid projects were under way or had been approved. Since then reports of unsatisfactory progress have been made on 283 of these projects and 120 of the 463 bridges of over 50-ft. span that had been approved.

Less reinforcing steel

Since the Public Roads Administration made its check of progress on approved projects, reports received by the American Association of State Highway Officials indicate that the scarcity of materials, especially reinforcing bars and cement, is getting progressively worse. M. J. Hoffmann, commissioner of highways in Minnesota, reports that he has been advised by the Carnegie-Illinois Steel Corp. that "due to the discontinuance of rolling deformed concrete reinforcing bars at the Duluth mill and the tremendous demand on our merchant mills in the Chicago district, effective Jan. 1, 1947, we will cease the sale and shipment of unfabricated concrete reinforcing bars in the St. Paul district office territory."

Under current OPA ceilings, merchant bars sell for $8 more a ton than the reinforcing bars. Also, the demand for merchant bars is so great that rolling mills are unable to fill their orders.

Statistics compiled by the construction division, Office of Domestic Commerce, indicate that 205,000 tons of reinforcing bars were produced during the first quarter of this year, and 189,000 in the second quarter. Of this amount, 94,000 tons were exported.

Regarding the shortage of reinforcing bars for concrete construction, the OPA states that since early in 1942 it has permitted a total price increase at mill level of 20c. per hundred pounds for reinforcing steel and that the price early in 1942 was $2.15 per hundred pound. That agency admits that its ceiling for reinforcing bars is $8 per ton below that for merchant bars, but holds that these ceilings are based on a percentage of profit and that the difference in price for the two types of steel before the war was much greater.

No demand by the manufacturing industry for an upward adjustment in the price of reinforcing bars is awaiting action by the OPA. However the General Steel Products Industrial Advisory Committee, which is composed of representatives of the producers of 85 percent of the output of reinforcing bars, has given authority to its chairman to petition the OPA for a general price review. However, as yet this request has not been placed before the OPA.

The Washington office of the Associated General Contractors of America, acting on the request of the associations members in the St. Paul area, petitioned

(*Continued on page* 3)

***Moreell Enters Building Field**—Admiral Ben Moreell (left) who has been Chief of the Materials Division in the Office of the Assistant Secretary of the Navy, Chief of the Bureau of Yards and Docks from 1937 until the end of the war, and operator of strike-bound oil refineries and pipelines and the coal mines for the government, has retired from active service in the Navy after 30 years to be president of the Turner Construction Co. of New York. Henry C. Turner, founder of the company, has retired as chairman of the board. His brother, J. Archer Turner, (right) president since 1941, becomes chairman and will continue as senior executive officer.*

NEWS IN BRIEF

In telegraphic form, here are latest news developments on the engineering and construction front during the week.

Construction—Plans for a $2,000,000 child health center in *Seattle, Wash.*, have been announced, also the allocation of $1,750,000 for two junior high schools. . . . The May Department Stores will erect a $4,000,000 building at *Phoenix, Ariz.* . . . Ground clearing has started for the $2,000,000 Alford terminal warehouse at *Dallas, Tex.* . . . Plans for the new $3,000,000 union station at *Toledo, Ohio*, are about complete. . . . Approval for 31 building projects in *Georgia*, totalling $628,030, was granted by the CPA during the first two weeks of this month.

Housing—A $470,000 colony of 106 houses is being built at Lancaster, a suburb of *St. John, N. B.* Completion of the Jefferson Barracks emergency housing project, to take care of the needs of former service men of St. Louis and St. Louis County, Mo., seems assured. The Federal Public Housing Authority on Sept. 9 notified Mayor Aloys P. Kaufmann that funds have been allocated the city to complete a total of 1,000 housing units.

Highways—The first work on an urban expressway for *Houston, Tex.*, will be included in 42 projects for which the state highway department will take bids this week. . . . The *Florida* road department will receive bids Oct. 3 for construction, widening or resurfacing of 95 miles of highway in ten counties. . . . More work remains uncontracted on *Arkansas'* 1946 highway program than has been programmed for 1947. Highway Director J. C. Baker attributed the situation to a combination of factors including lack of technical help in the department to prepare the 1947 project estimates for Public Roads Administration approval and the virtual impossibility of obtaining bids on 1946 jobs which include bridge structures requiring use of steel.

Water Supply and Sewers—The Washington State Pollution Control Commission has given final approval to *Spokane's* plans for a $4,000,000 sewerage system and treatment plant. . . . Consoer, Townsend & Associates, Chicago engineers, have raised the figures for proposed sewer construction in *Lawrenceville, Ill.*, from $500,000 to $678,082 on proposal one and to $714,202 on proposal two. Project one includes intercepting sewers and a lift station, storm sewers, and sewage treatment plant, without garbage reduction equipment, plus amortization. Project two includes the preceding, plus garbage reduction equipment.

Bond Issues—*Graham, N. C.*, will hold an election on a proposal for $300,000 in bonds for a new water plant. . . . Bond issues for various improvements are to be voted on in November in these Ohio communities: *Greenfield, Canton, Washington Township, Hamilton, Defiance, Hicksville, Shelby, Marysville, Maumee*, and in *Medina* and *Clinton* counties. Voters at *Watseka, Ill.*, Sept. 3 approved $380,000 for a high school. . . . Voters of *Sangamon County, Ill.*, on Nov. 5 will pass again on a $1,500,000 bond issue for a new court house, the proposal having been defeated last spring. . . . Voters at *McPherson, Kan.*, Sept. 3 rejected the larger part of a proposed $430,000 bond issue for civic improvements.

Miscellany — *Ann Arbor, Mich.*, turned down a contractor's proposal for sidewalk snow removal at $31,000 a year. Councilmen decided to let property owners clean their own walks. . . . D. W. Winkleman & Co. of Syracuse, N. Y., have approved a revised contract for a $671,096 flood control project at *Canisteo, N. Y.* and have been ordered by the U. S. Army Engineers to proceed with the job. . . . Indefinite postponement of the proposed $33,000,000 public school building improvement and expansion program has been recommended by Phillip J. Hickey, superintendent of instruction and by other executive officers of the *St. Louis, Mo.*, Board of Education. . . . The city council of *Boston, Mass.*, has passed to a second reading a bill for a $5,000,000 loan to provide for off-street parking. . . . Bids are to be opened Oct. 1 at *Iola, Kan.*, for a new 3,000 kw. turbo-generator for the city's power plant. . . . An acute labor shortage is delaying city construction on the *Dallas, Tex.*, master plan. . . . The Greater Youngstown Area Foundation of *Youngstown, Ohio*, will give $20,000 toward a master plan for development of that area. . . . An all-glass building is planned for Advanced Aircraft, Inc., at *Eddington, Pa.*, between Philadelphia and Bristol. The plant will occupy 16,000 sq. ft. of floor space and will be built of either corrugated glass or glass block—even the roof. The best light is required for the intricate machine-tool work to be done there.

Prizes made available to structural engineers

Awards totalling $9,000 for papers or reports on structural engineering, buildings and bridges are included in the $200,000 "Design-For-Progress" award program of the James F. Lincoln Arc Welding Foundation of Cleveland, Ohio.

This program offers a special opportunity for engineers, designers, architects, draftsmen, production and maintenance men, researchers, and educators. The cash awards range from $100 to $13,200 for papers or reports covering the design or redesign of machines or structures, or operating a job weldery, or maintenance service, or on research or education.

Further information is available from the James F. Lincoln Arc Welding Foundation, Cleveland 1, Ohio.

Plan conference on hydraulic machinery

A two-day national conference on hydraulic machinery, designed to foster an interchange of ideas, methods and approach, and techniques in the field of hydraulics, will be held at Chicago, Ill., Oct. 22 and 23.

The session is sponsored by two divisions of the Illinois Institute of Technology—the Armour Research Foundation and the graduate school, with the cooperation of the Western Society of Engineers and local sections of the American Society of Civil Engineers, the American Society of Mechanical Engineers and the Society of Automotive Engineers.

The Chicago meeting will be the second annual session to be conducted by the conference.

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Employment on construction work rises, but skilled men remain scarce

Scarcities of all types of labor exist in some areas—Wage conditions upset by temporary removal of federal controls

Total employment on construction, including private, public and force account work, reach 2,317,000 in August, according to preliminary reports of the U. S. Bureau of Labor Statistics. This figure is 123,000 or 5.6 percent above the total of 2,194,000 for July, and is 82.9 percent above the January, 1946 total of 1,267,000. (For more details of construction employment in recent years, see "Construction Trends" *ENR* July 25, issue page 49.)

The most rapid expansion in employment occurred on home building, where four times more men were employed this August than last year, the figure having jumped from 206,000 to 828,000. While there were almost as many working on non-residential building as on home construction in August, 1946, the rate of increase over the year was relatively less.

Labor situation varies

The availability of labor varies widely, depending in large measure on the availability of construction materials. Consequently, the U. S. Employment Service believes that any considerable increase in the supply of such materials would result in an immediate shortage of labor that would be as serious as the current shortage of materials.

Bricklayers and carpenters have continued scarce generally despite materials delays. Plumbers, plasterers, painters and electricians are becoming harder to find as more houses near completion. The USES feels there will be more construction laborers available when improvement in the flow of materials assures steadier employment. However, low wages, particularly in the south, are a factor contributing to the reluctance of workers to take laborers' jobs.

In order to recruit masons for an emergency housing project for 1,900 student-veterans of Indiana University, Bloomington, Ind., Economic Stabilizer John R. Steelman has approved payment of a temporary rate of $1.97½ an hour, which is 10c. above the area rate. The rate will apply only to work on the project at the Indiana school.

Many wage increases approved

In 920 decisions made since the OPA and wage controls were reinstated July 25, the Wage Adjustment Board has approved 507 applications for increases, has modified the increases sought in 270 requests, and has denied an increase in 143 cases. The WAB receives about 200 applications a week and has about 1,000 awaiting decision.

The WAB would not estimate the number of situations that required rollback of increases put into effect during the OPA hiatus July 1-25 and later found unapprovable. The National Wage Stabilization Board, which handles enforcement actions against violators, believes that there were not many. Cleveland union carpenters had to cut back 2½c. Three instances were reported in Detroit. The NWSB is still doing a big business against wage violators, docketing some 375 cases a week. It has 5,500 complaints of violations on hand.

Florida asks CPA OK on $8,000,000 for buildings

Applications for construction of state buildings costing approximately $8,000,000, to be started before the end of the year, will be filed by the Florida State Improvement Commission with the Jacksonville office of the Civilian Production Administration, it has been disclosed by Charles L. Ledford, district CPA manager at Jacksonville.

A tabulation of the state's present building needs, prepared by C. H. Overman, director of the improvement commission, has been sent to Washington to be studied by CPA officials.

Most of the desired construction is proposed for the University of Florida, where a temporary program costing about $2,000,000 already is under way to meet "pressing needs of the fall enrollment," according to Overman's report. Building projects also are included for the State College for Women, Florida A. and M., the School for Deaf and Blind, the Florida Farm Colony, the Industrial School for Boys.

Road building delayed by scarcities

(*Continued from page* 1)

the OPA to take price ceilings off reinforcing bars, but the agency refused. However, because of the activities of the AGC and other interested groups, reinforcing bars have been added to the list of construction materials that may not be exported without a license from the Office of International Trade of the Department of Commerce.

Cement inventories decline

The Bureau of Mines reveals that the inventories of portland cement at the mills are at the lowest point since the war program began. The total has dropped from 11,064,000 bbl. at the end of July to 9,322,000 bbl. at the end of August.

Increased demand and the shortage of coal due to strikes have been the big factors in producing this decline. The severe shortage of railroad cars for shipping purposes has further added to the problem, with the result that at the present time there are shortages in many parts of the country.

Cement has become so short in supply that the National Housing Agency on Aug. 27 had cement placed under priority control by adding this material to Schedule A of Priorities Regulation 33 (*ENR* Sept. 5, vol. p. 281). Under priority distribution, about 20 percent of the total output of cement will be channeled into the veterans housing program.

Because of the controls recently imposed by NHA to curtail non-housing work, the demands for cement are expected to drop somewhat in the next few weeks. The normal reduction of construction in the northern states also is expected to curtail further operations requiring a large amount of cement. As a result, the Civilian Production Administration and other government agencies hold out some hope for an improvement in the cement supply picture late this year and early next. Also, July production was up to 15,421,000 bbl., to make a production rise of 6 percent over June.

Ceiling prices set by the OPA are not looked upon as an important factor in producing the shortage of cement. Since March, 1942, the OPA has granted a cement price increase totaling 20c. per barrel throughout the country and a total of 30c. in southern California. A further price increase of 5c. per barrel has been permitted where deliveries are being made in bags.

The OPA further reveals that the supply of sand, gravel, and crushed stone remains so short that these materials must remain under OPA price controls. In contrast, the supply of slag has improved sufficiently that this material has been removed from price controls, except where the material is to be used for light-weight aggregate.

DEVELOPMENTS BEYOND U. S. BORDERS

Digested from reports by Engineering News-Record correspondents and the McGraw-Hill World News Bureau

Allied building experts drive to direct German research toward use of plastics in construction of prefabricated housing—Britain builds 20,000 permanent homes—France pushes large power development on the Rhone River

Germany—As part of an effort to orient German research in the direction of prefabricated housing, Allied government experts have now had set up in Berlin an exhibit of five model prefabricated houses made of polyvinyl plastics that is admittedly visionary.

The use of plastics—or other substitutes—is seen as a prime need for German housing, since more conventional building materials are almost unobtainable. Efforts to foster prefabrication along more conventional lines were doomed from the start. The Germans were found to be 10 or 15 years behind even in their thinking on prefabricated housing—their production being limited to a relatively small output of factory-made wooden sections, and some small work with concrete block and foam-concrete sections.

Insufficient timber resources, the reduced level of steel output and the ban on aluminum ruled out these three standard materials. Only concrete seems likely as a prospect, and even this material is somewhat limited.

Several months ago American authorities, eager to get the Germans working on the project of housing themselves, organized a research panel of architects, engineers and other qualified representatives of the German building industry, and established an experiment center at Stuttgart. The panel was instructed to develop new designs, incorporating whatever materials it could get fabricated, but using wood and steel sparingly.

Twelve designs have thus far been approved, and the five models now on display in Berlin are taken from these designs. The American type, shown in the accompanying picture, was designed by Robert R. Henry, chief of the U. S. Military Government's building materials and construction branch. French, Russian, British and German versions are also included.

Although the Germans were well advanced in manufacture of many "ersatz" materials, their experience in the building field was limited to wallboards with resin-bonded fills.

In looking to plastics as a possible solution to the need for substitute materials, a number of unknowns must be considered. These include the fact that Germany's future plastics production is in doubt until reparations are settled. No one seriously expects production of houses utilizing polyvinyl to the extent of the American model. Two and a half tons would be required to produce this type. On the other hand, these considerations do not rule out the possibility of the Germans meeting the need for substitute materials out of plastics to some degree. Experts have pointed out that development of resin-bonded materials that could meet tests of weather and structural strength might result from the research now being carried on.

England—Up to the end of July, British private industry and government effort had succeeded in building a total of 60,452 houses, of which 20,027 were permanent structures, the Ministry of Health reported recently.

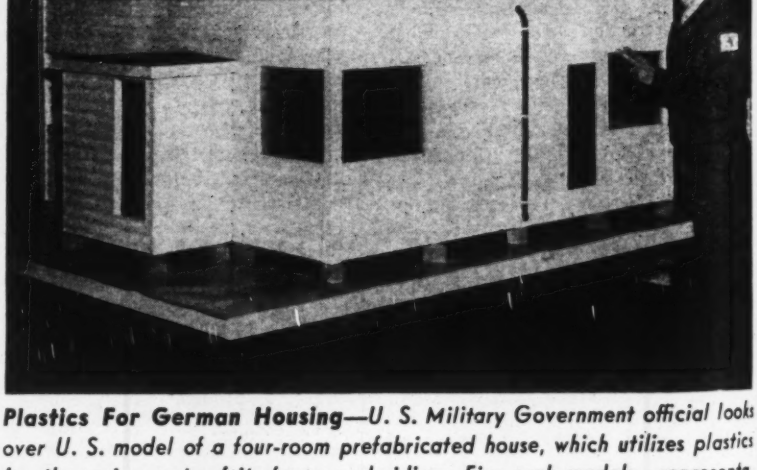
Of the total of permanent structures, 11,000 were built by private enterprise, and 6,500 by government agencies.

The total labor force now engaged in housing is 570,000, the ministry said, and there are some 20,000 German prisoners-of-war employed in preparation of sites for new housing.

India—The Improvements Committee of the Bombay Municipal Corporation is now considering plans for the construction of 1,000 apartments—each with 250 sq. ft. of floor space—to house employees of the essential municipal departments. Cost of construction is estimated at about $2,000,000, of which the Indian government has agreed to pay 12½ percent. The project would be aimed at relieving congestion in lower-class sections of the city where recent surveys indicate that occupancy of apartments now tops seven persons per single room.

Water and Sewerage . . .

Russia—Two rapid sand filtration plants for water supply and two activated sludge sewage plants are projected for construction in Moscow early in 1947, according to Michael N. Shestokov, chief engineer of water sup-



***Plastics For German Housing**—U. S. Military Government official looks over U. S. model of a four-room prefabricated house, which utilizes plastics for the major parts of its frame and siding. Five such models—representative of types of houses now being built in the United States, Britain, Russia, France and Germany—are on display in Berlin's former imperial palace.*

ply and sewerage of the Moscow City Council, who has just completed a four-month U. S. tour.

Mr. Shestokov said that the plants would each have a capacity of from 150 to 200 mgd. The water purification plants are to supplement existing slow sand filters.

Activated sludge treatment was chosen for the sewage disposal plants, he said, on the basis of experimental work conducted in Moscow for more than 15 years. At present, the city has several small sewage treatment plants using aerated filtration units, and land irrigation with sewage is also employed.

Greatly impressed with United States practice, Mr. Shestokov said he was planning to write a book on his observations, which would include a detailed account of plants he visited during his tour.

Highways and Transport . .

Mexico—During the fiscal year 1945-46 the Mexican government completed work on repair, reconstruction or new pavement, on nearly 2,000 miles of highways, at a cost of about $23,000,000, according to an annual report by the Ministry of Communications and Public Works. The largest part of this expenditure was made on the southern section of the Inter-American highway, and the Nogales-Guadalajara and Juarez-Mexico City highways.

In addition to the work listed above, the ministry reported it had spent some $4,500,000 for maintenance and repair of federal highways on a road network of more than 4,500 miles.

Venezuela—The Venezuelan Ministry of Public Works announced that work will begin shortly on modernizing Avenue Bolivar—one of Caracas' principal downtown streets—at a cost of about $3,500,000.

England—Plans for coordinating rail transportation in Europe have been developed by Sir Ralph L. Wedgwood, formerly a key executive in British railroads and more recently chairman of the Railway Executive Committee.

Under the plan, the first step would be a fusion of the two governmental organizations which existed in Europe before the war—the International Conference on Railways, and the so-called "Berne" Union, which included all the European countries excepting Russia.

The "fusion" organization would aim at increasing the volume of international rail transport and the efficiency of its operation through four main objectives: Uniformity of physical standards; efficient distribution of rolling stock; uniformity of freight carrying conditions, and stability of charges.

Power . . .

Russia—At Krivoi Rog, in the Ukraine, the Saksagan River is scheduled for considerable revamping in the near future. The famed Krivoi Rog iron ore mines are located on both banks of the river just above its junction with the Ingulets River.

Plans for restoring and extending the iron mines have a direct bearing on the future of the Saksagan, since geologic reports have shown huge beds of ore under the river bed.

In order to reach this ore, the river will be diverted from its present course into a six-mile reinforced concrete conduit, which will carry it under the town of Krivoi Rog and into the Ingulets. The conduit will be about 45 ft. underground.

The project also calls for construction of three storage reservoirs to regulate flow in the river, supply water to mining operations and for household purposes, and provide small power sources for the region.

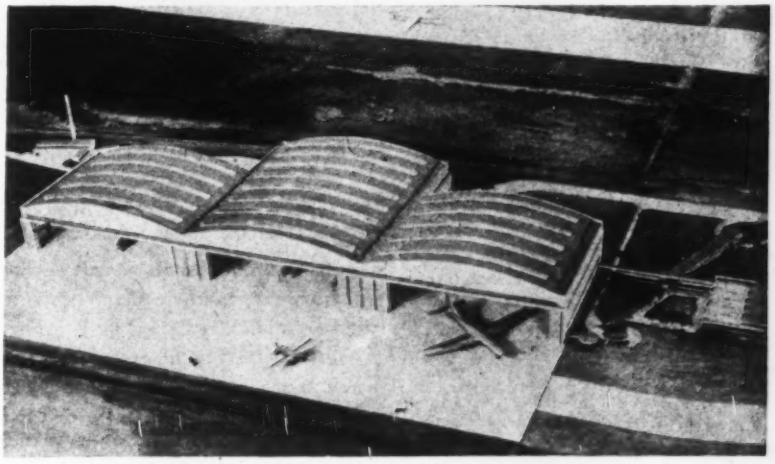
France—High up the Rhone River in a narrow gorge south of Bellegarde, France, and not far from Geneva, Switzerland, French construction forces are at work on a hydro project said to be exceeded in size in Europe only by Russia's Dnieperstroy. Known as the Genissiat Dam, it consists of a concrete gravity-section dam, 340 ft. high and 650 ft. across its crest, a power house and a ship canal. Six 19-ft. dia. penstocks under a 210-ft. head lead to 70,000 kva. generating units, only four of which will be installed initially. Average annual production of the ultimate development will be 1.6 billion kilowatt-hours, equivalent to about 10 percent of the output of all of France's present hydro plants.

Ports and Harbors . . .

Venezuela—Eduardo Mier y Ternan, Venezuelan minister of public works, has announced the award of a $4,500,000 contract for construction work on the Port of La Guaira to two American firms—Smith Engineering Contracting Co. and Stevens Co., Associated. The contracts call for lengthening and reinforcing breakwaters on the northern side of the port.

Australia—The government of the State of Victoria announced recently that engineers were now conducting surveys at the port of Portland, in southwest Victoria, to determine the feasibility of making the city's present open roadstead into an all-weather port.

Brazil—New docks costing an estimated $1,250,000 at Pelotas, in the State of Rio Grande do Sul, have been authorized by the national government. This port, located on the Lagoa dos Patos, is located near Porto Alegre, the state capital, and its improvement will aid shipping facilities in the area. Plans for improvement of Port Alegre facilities for about $167,500 have been approved.



***Biggest Hangar for Biggest Plane**—The 110-ton Brabazon I airliner—biggest landplane yet built in England, is to be assembled in that country's biggest hangar. The new structure will cost about $7,000,000, according to engineers of the Bristol Aeroplane Co. The new hangar will cover more than eight acres of ground, and will be provided with an apron covering an additional six acres. The building, besides the usual features of such structures, will contain offices, a cafeteria and storerooms.*

Push traffic problem solution plans

Spurred by the ever increasing demands of automotive traffic, officials at many points last week were beginning to make concrete moves toward the realization of plans for providing quick transit through and around congested downtown business areas.

At Philadelphia, Pa., Mayor Bernard Samuel, Public Works Director M. J. McLaughlin, and Gov. Edward Martin signed an agreement to provide for financing of the proposed $20,000,000 Pennsylvania Boulevard.

Under the agreement, the city will acquire rights-of-way and pay for property damages, and the state will bear the entire cost of construction.

City officials said that the project will get under way just as soon as the city has completed drafting of plans.

The boulevard will extend for about a mile and a half from the present Benjamin Franklin Parkway at 15th St. to the 30th St. station of the Pennsylvania Railroad. Plans call for overhead crossings to carry the 90-ft. roadway over three intersecting roads, and for a new bridge over the Schuylkill River.

Urge toll road

In the State of Washington Gov. Mon. C. Wallgren said that he would "strongly urge" construction of a year-round, four-lane toll highway across the state between Seattle and Spokane, possibly involving a tunnel through the Cascade Mountains at Snoqualmie Pass.

Exact location of the road must await completion of a survey now being conducted in regard to the tunnel. The governor said that the highway, similar to the Pennsylvania Turnpike, would by-pass principal cities, but turnouts would be provided for local traffic. The road would connect western Washington shipping and industrial areas with eastern agricultural regions. At present the principal highway between the two sections of the state is a two-lane road.

At Dallas, Texas, the City Council ordered purchase of right-of-way for the projected $10,000,000 Memorial Parkway which will encircle the city. The Council also approved construction plans for a one and one-half-mile section of the parkway in southwest Dallas, to be built at a cost of about $1,600,000. This section of the road will be 130 to 150 ft. wide, have a 230-ft. traffic line separated by parking strips

At Frankfort, Ky., State Highway Commissioner J. Stephen Watkins said that construction would begin early next spring on the first phase of a $30,000,000 project for expressways at Louisville. The road as planned would take nine highways around the central portion of the city.

In Boston, Mass., traffic problem solutions took a different slant when the chairman of the Legislative Special Commission on Postwar Highways said recently that he would oppose further expenditure of state funds unless the city takes advantage of recent legislation directing provision of off-street parking facilities.

Edward W. Staves, chairman of the division and sponsor of a law passed by the legislature permitting Boston to spend $5,000,000 for off-street parking, said that Boston's current traffic problem is "the worst in the nation," and that the city must now take action to provide parking facilities. Up to the present time the City Council has taken no action on the state law.

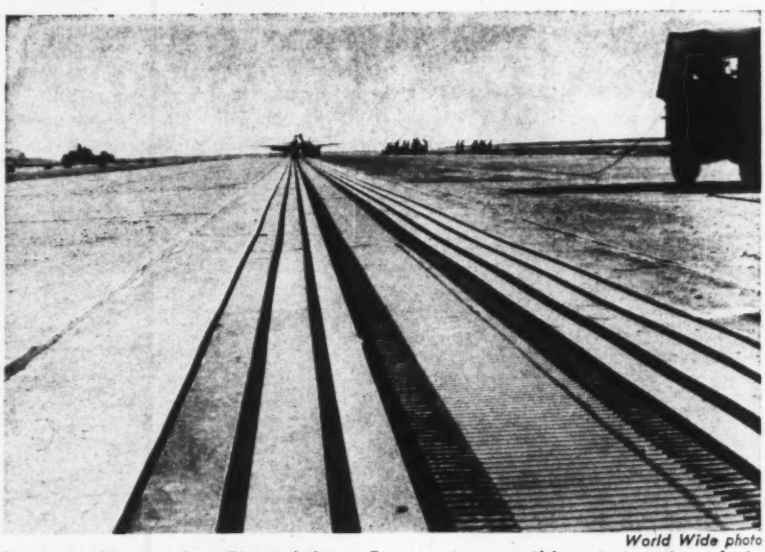
City councilmen reacted by reviving and passing to a second reading a bill to authorize the city's acceptance of the proposed $5,000,000 state loan.

Tunnel is recommended to ease Seattle traffic

The $5,000,000 Alaskan Way viaduct for which plans now are being completed by the Seattle, Wash., city engineering department, should be connected with Aurora Ave., main arterial highway out of the city to the north, either by a tunnel or a depressed roadway, City Engineer Charles L. Wartelle has informed the city council.

"A tunnel is by far the best scheme," Mr. Wartelle said, "but for financial reasons it may have to be a depressed roadway. It is becoming increasingly evident that no surface connection between the north end of the viaduct and Aurora Ave. will be adequate except as a temporary expedient."

The depressed roadway would be in an existing street, according to present plans. The proposed tunnel, 3,200 ft. long, would consist of two tubes, each with two lanes. The viaduct would carry through traffic around the main business district in order to alleviate the present traffic problem. Its construction will be followed at a later date by the tunnel.



World Wide photo

***Launch Planes by Electricity**—Forecasting possible rejuvenation of airfields now outmoded by small size is the "Electropult"—an electrically operated catapult developed by Westinghouse Electric Co. An adaptation of the method used to launch 'planes from ships, the mechanism is a linear electric motor delivering power in a straight line. The central portion of the 1,382-ft. track above corresponds to the rotor of a conventional motor. Over it rides a low shuttle car to which planes are attached by a cable yoke. Corresponding to the stator of the motor, the car draws power from "third rails" in the first of the long grooves, attaining speeds up to 226 mph. in less than 500 ft., running free. Trolley wheels that hold down the shuttle run along the underside of the flanges of the outer I-beams, which also act as a track. This installation, at the Navy's Patuxent, Md., base, cost about $1,000,000 for construction and equipment.*

New England waterworks groups seeks federal stream pollution control law

Poland Spring meeting stresses need for positive pollution abatement action—Joint committee of water and sewage groups sought

Measures being taken to abate and control stream pollution, especially with regard to New England streams serving as public water supply sources held the spotlight at the annual meeting at Poland Spring, Me., last week of the New England Water Works Association. As a result, the association took action leading to participation with other water and sewage groups in an effort to draft and foster passage of a national pollution control act.

Intent of the New England group to take positive rather than negative action in the matter of pollution control legislation is expressed in a motion unanimously adopted by the meeting.

This motion is to "appoint a representative to and become a member of a joint committee representing the various societies and associations interested in stream pollution abatement, which committee shall draft a suitable bill for federal participation in stream pollution abatement, get it introduced in the Congress, and promote its passage into law."

Previously, the meeting had heard a representative of the regulatory bodies in each of the New England states briefly describe the problems encountered and the progress made in handling stream pollution abatement in his state.

Notable among the new developments in this regard is the attempt being made in Vermont to enact legislation permitting municipal sewer service charges. Proponents claim this type of law is needed to enable cities and towns to finance much-needed treatment plants.

Water service improvements

Several papers dealt with improvements to water service, both as to quantity and quality.

In describing the new duplicate water system of Toronto, Ont., William Storrie, consulting engineer of that city, pointed out that discharge of the city's inadequately treated sewage into Lake Ontario midway between two water intakes necessitated "selective" withdrawal of water from the lake.

Experiences with breakpoint chlorination in New Haven, Conn., water supplies were described by M. S. Wellington, sanitary engineer for the New Haven Water Co., who pointed out that although positive presumptive b-coli tests represented 43 percent of the total samples taken in 1943, this figure was reduced to 29 percent in 1944 and 11 percent in 1945. For the same three years, confirmed tests represented 2.08, 1.8 and 0.82 percent, respectively, although the number of portions examined in both 1944 and 1945 was more than twice that for 1943. High hydrogen ion concentration (pH) due to addition of lime, when combined with a high chlorine residual gave a distinct iodoform taste and apparently inhibited bactericidal action of the chlorine. Reduction of the pH, however, corrected this condition.

Other papers included: "Additions to Springfield's Transmission Mains", by Peter C. Karalekas, chief engineer, Springfield Water Works, Springfield, Mass.; "Problems in Sludge Disposal for Connecticut Water Treatment Plants", by F. O. Almquist, principal sanitary engineer, Connecticut State Department of Health; "Cement Linings for Cast Iron Pipe", by Thomas H. Wolfe of the Cast Iron Pipe Research Association, and "Reforestation on the Quabbin Reservoir Project", by Russell Snow, forester of the Massachusetts Metropolitan District Water Supply Commission.

Award of the Dexter Brackett memorial medal was made to Francis F. Longley, vice president of the Lock Joint Pipe Co., Ampere, N. J., for his paper on "Pre-stressed Reinforced Concrete Pipe".

Officers elected for the ensuing year include Arthur L. Shaw, consulting engineer of Boston, president; and Arthur C. King, superintendent of the Taunton, Mass., waterworks, vice president. D. C. Calderwood, superintendent of waterworks, Nashua, N. H., was re-elected vice president; W. P. Melley and W. C. Conroy, superintendents at Milton and Belmont, Mass., were re-elected treasurer and secretary, respectively.

Housing costs vary widely Labor Dept. report shows

The average cost per dwelling unit of new housing started in 17 industrial areas during the months April, May and June are expected to vary in costs for construction alone from $4,480 to $7,740 per dwelling unit, according to the Division of Construction and Public Employment of the Bureau of Labor Statistics, Department of Labor. Variations in different sections of the country are shown in the accompanying table.

NUMBER AND ESTIMATED CONSTRUCTION COST OF DWELLING UNITS STARTED IN 17 INDUSTRIAL AREAS[1]

Area	April—June 1946 Number of dwelling started	April—June 1946 Construction cost[2] Total	April—June 1946 Construction cost[2] Average per unit
New England and Middle Atlantic			
Buffalo, N. Y.	1,200	8,218,000	$6,850
Erie, Pa.	205	1,163,000	5,670
Pittsburgh, Pa.	1,590	10,016,000	6,300
Reading, Pa.	195	1,275,000	6,540
Scranton, Pa.	110	603,000	5,480
Syracuse, N. Y.	280	2,032,000	7,260
Trenton, N. J.	355	2,167,000	6,100
Worcester, Mass.	560	3,902,000	6,970
East and West North Central			
Chicago, Ill.	5,130	39,463,000	7,690
Milwaukee, Wis.	1,600	12,378,000	7,740
Minneapolis-St. Paul	2,655	17,263,000	6,500
South Atlantic			
Baltimore, Md.	2,370	16,487,000	6,960
Washington, D. C.	2,820	20,909,000	7,410
Wilmington, Del.	235	1,722,000	7,330
Mountain and Pacific			
Denver, Colo.[3]	1,400	7,984,000	5,700
Sacramento, Calif.	1,160	5,194,000	4,480
Salt Lake City, Utah[3]	490	3,211,000	6,550
Total—17 areas	22,355	153,987,000	6,890

[1] Privately financed projects only.
[2] Based on contractors' estimates of construction cost, exclusive of land and improvements.
[3] Data are for April and May only.

Army Engineer posts consolidated

The Corps of Engineers will merge its Middle Atlantic division office now at Baltimore, Md., with the North Atlantic division office in New York City, effective Nov. 1.

The Middle Atlantic division was established during the war to meet the needs of military construction, supplementing the North Atlantic division at New York and the South Atlantic division at Atlanta, Ga.

While the functions of the division office at Baltimore will be removed to New York, the Baltimore district engineer office will remain and will absorb the Syracuse, N. Y., district engineer office, which is to be discontinued. Col. John S. Seybold, present district engineer at Syracuse, will become district engineer at Baltimore. The unification of the two divisions and two districts will increase effectiveness of flood fighting and flood control in the Susquehanna Valley which has been a divided responsibility.

Northern areas now under the jurisdiction of the Syracuse, N. Y., district office will be taken over in a realignment of boundaries by the Buffalo and New York district offices.

The Baltimore district will be further augmented by an historical branch to prepare the Engineer phases of the War Department's history of World War II.

Other organizational changes already announced are in New England where the functions of the Providence, R. I., and Boston district offices have been absorbed by the New England division office at Boston; and in the Southwestern division where the district office at San Antonio has been discontinued. The functions of this office are to be taken over by the Galveston district office.

Ohio River division moves

Also the four divisions and branches and executive offices of the Ohio River Division, have moved from Columbus to Cincinnati, Ohio. Approximately 180 civilian and military personnel were involved in the transfer. Only the contract terminations and price adjustment branches remained in Columbus, announced Col. R. G. West, assistant division engineer. In addition to the executive offices, the engineering, civil works, and real estate divisions and the finance branch was moved to Cincinnati. Col. Beverly C. Dunn, in charge of the office, announced recently that he had transferred his headquarters to Cincinnati.

Army to build reserve fleet facilities

The U. S. Army Engineers will develop and construct five, and possibly six, permanent reserve fleet sites for the U. S. Maritime Commission, the War Department announced Sept. 17. The Maritime Commission has transferred $10,000,000 to the Army Engineers to cover the estimated cost of this program.

The five assured sites will be located in the James River, at Lee Hall, Va.; the Brunswick River, Wilmington, N. C.; the Tensaw River, Mobile, Ala.; The Neches River, Beaumont, Tex.; and Suisun Bay, Benicia, Calif. The sixth site under consideration is one of two located in the Columbia River area. These locations do not include certain sites that are to be utilized for a period of two or three years while disposition is being made of certain overage, damaged or unwanted types of vessels.

Drydocks from Navy

Each of the permanent sites will be equipped with a drydock for the preservation of bottoms of the vessels. A 15,000-ton steel drydock will be installed at the James River site and 12,000-ton wooden drydocks at the other sites. These will be surplus drydocks, obtained from the Navy Department, and will be used for inspection purposes only. If such inspection reveals need of repairs on any vessel, the job will be handled commercially.

The James River site, approximately 25 mi. northwest of Newport News, was originally selected as temporary, but in view of the scarcity of suitable sites on the Atlantic Coast and the cost of developing them, plus the fact that it can accommodate 600 to 700 vessels, the Maritime Commission changed it to permanent status.

At the time the Maritime Commission requested the Army Engineers to undertake the permanent reserve sites program, development of the Brunswick River site was under way. The dredging is now close to 50 percent completed. Latest calculations show this site capable of caring for about 390 vessels at the maximum.

The Tensaw and Mobile rivers flow from the north into Mobile Bay near Mobile, Ala. Investigation reveals that a site capable of holding more than 700 vessels can be developed in the Tensaw about 20 mi. from Mobile. At present, about 150 vessels are moored in the Mobile River, but it was found that the larger site in the Tensaw can be developed as cheaply as a 450-vessel site in the Mobile River and the larger capacity site was selected.

Difficulties encountered in acquiring land have delayed the commencement of dredging at the Neches River site, previously approved by the Maritime Commission. These difficulties have now been overcome. It will hold approximately 500 vessels.

The Suisun Bay site can accommodate approximately 500 vessels and now has about 360 vessels moored in it. It was originally selected as a temporary site but has now been made permanent.

Propose a new bridge over Mississippi River

First steps toward the realization of a long-discussed Mississippi River bridge to link the trade areas of West Tennessee and Southeast Missouri were taken at Dyersburg, Tenn., Sept. 15 at a meeting of civic leaders.

The representatives formed a "Hands Across the River" committee and named officers to draw up plans for financing and building the span. The committee will be headed by Charles G. Ross, chairman of the Caruthersville Chamber of Commerce Bridge Committee.

The site of the proposed bridge probably would be at Tenemo, Tenn., or Boothspoint, Tenn., crossing the river in the vicinity of Caruthersville.

In the meantime, shortage of materials and high costs are delaying completion of the Arkansas-Memphis bridge across the Mississippi and undoubtedly will raise the total cost of that structure above the estimated $10,500,000. Although work on the 2-year contract for seven main piers and the Memphis abutment is progressing on schedule, the bridge cannot be completed within the original 3-year estimate under present conditions.

Ohio and Wabash bridges also planned

Indiana and Kentucky citizens are discussing the idea of building three new bridges across the Ohio River and one across the Wabash in southern Indiana.

Walter G. Koch of Evansville, chairman of the Indiana Toll Bridge Commission announced that Governor Ralph F. Gates is in favor of speeding plans for the four bridges. He said the St. Louis bridge engineering firm of Sverdrup and Parcel had been retained to draw plans.

OPA suspends control on some construction items

Suspension of price control over some construction machinery and equipment has been announced by the Office of Price Administration. This machinery and equipment is used largely in connection with highway building and maintenance and to a small extent on large building projects. Manufacturers were given a 10 percent price increase on these products April 10, 1946. Any price increase following suspension from control is not expected to be larger than the additional increase which would be given under OPA standards. Several items of construction equipment that are not being included apparently meet this test but are in such short supply that they are being kept under control. This is true, for example, of multiple use construction machinery.

Construction machinery and equipment being suspended follow: Aerial tramways; highway barricades; tank car boosters; road, construction and rotary brooms; concrete chutes; asphalt plant circulators; concrete aggregate dryers; aggregate feeders; flares for highway use not including truck flares and pyrotechnic flares; street flushers; road and sidewalk forms; stone, sand bitumen heaters; heaters for concrete mixers, asphalt, surface and tank car; mud jacks; heating, bituminous kettles; mortar boxes; plants, apshalt, bulk cement, soil stabilizer but not including portable concrete plants; floating pontoons; scaffolds and construction towers; stump pullers; street sweepers and wellpoint systems.

Materials prices increased

Increases in the delivered prices for four categories of building and construction materials reflecting government approved rail freight increases were authorized Sept. 19 by the Office of Price Administration.

The action, effective Sept. 23, affects clay and shale building brick (common, glazed and face), structural clay tile, clay drain tile produced by other than vitrified clay sewer pipe manufacturers, and sand lime brick.

Manufacturers' ceilings for ready-mixed concrete were raised by the Office of Price Administration on Sept. 19 to reflect increased costs resulting from rail freight and other increases on aggregate and cement approved by the Interstate Commerce Commission and state regulatory agencies.

Contractors purchasing the concrete will pay approximately two to three percent more than the former ceiling as a result of the action which went into effect Sept. 23.

Test borings begun for new Bay bridge

Test borings to determine the best location for the long-debated second San Francisco Bay crossing have been begun by Ben C. Gerwick, Inc., San Francisco.

First borings are being made between Hunters Point and the Alameda County shore. Further tests will be run on three additional lines between Telegraph Hill and Hunters Point.

Engineers of the state division of highways bridge department will be assigned to barges conducting boring operations, Bridge Engineer F. W. Panhorst said. Data kept on underwater geological conditions and traffic counts will be the major factors in final determinations of the location for a new crossing.

Letting of the contract by the state public works department brought a sharp protest from California Representative Richard J. Welch, who charged expenditures for test borings at this time were "a waste of the taxpayers' money." He declared that no particular location should be surveyed until after the joint Army-Navy board which recently conducted a hearing on the question (*ENR*, Aug. 22, vol. p. 222) has made a determination of feasibility and the War Department has issued a grant for the span.

He claimed the type and location of a new bay crossing is the federal government's responsibility, not the state's, and that the military board already had enough information to recommend a federal grant.

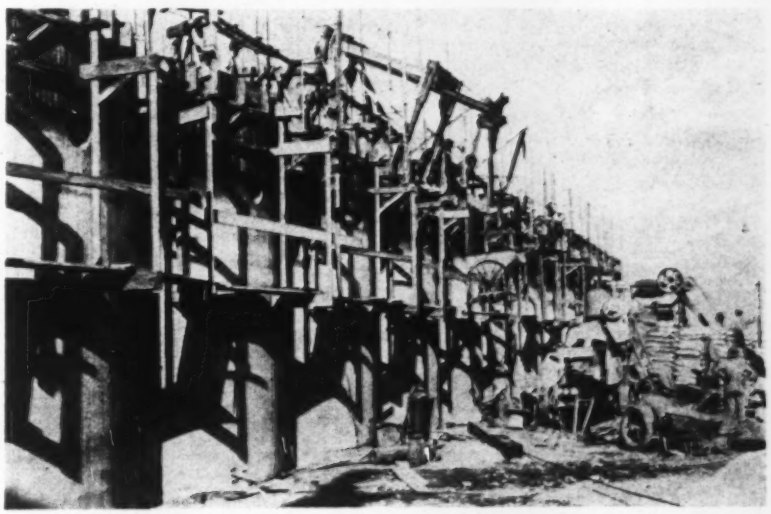
C. H. Purcell, director of California public works, replied that "These data must be had before any intelligent determination of a site can be made."

The survey was ordered following the California Toll Bridge Authority's allocation of $40,000 for preliminary studies, a grant made in anticipation of $37,500 each from Alameda and San Francisco counties. Alameda County's check for the amount has been received by the state agency.

Four flood control dams proposed for Indiana

Preliminary plans for four flood control dams in Central Indiana costing $11,000,000 have been announced by Clyde R. Black, executive secretary of the Indiana Flood Control and Water Resources Commission. The four projected reservoirs are in the upper tributaries of the East Fork of White River. Their cost is estimated as follows: Flat Rock, $3,100,000; Clifty Creek, $1,800,000; Driftwood River, $3,800,000; and Sand Creek, $2,300,000.

Eight other reservoirs in the Upper Wabash River area of north central Indiana are being considered. Engineers already are making final construction plans for the large Cagles Mill reservoir south of Greencastle, Ind.



***Bins for Beans**—Slip forms of 1 x 4 in. T & G flooring are raised vertically by screw jacks to permit continuous concreting of sixteen 24-ft. dia., 125-ft. high concrete bins for storage of a million bushels of soy beans. Concreting, and forms, for the 7-in. thick walls rise at 10 ft. or more per day to be ready to store bean crops this fall. Bins are for the Iowa Soya Co. at Redfield, Ia. Ryan Construction Co. of Omaha is the contractor.*

MEN AND JOBS

Col. R. E. Smyser, Jr., former commander of the European Aviation Engineer Command, has been appointed engineer in charge of the St. Louis Army Engineer District. He succeeds **Col. L. B. Feagin,** who had been in charge of the district since August, 1942. Colonel Feagin is returning to his civilian position as chief of engineers in the district.

Colonel Smyser, who was graduated from West Point in 1928, was executive officer of the 21st Engineers (Aviation), the first corps of engineers assigned to support the air forces when it was activated in the spring of 1940.

The day after the Japanese attacked Pearl Harbor, Colonel Smyser was sent to England as deputy engineer in charge of planning the construction of airfields and facilities for the Eighth Air Force. When that task was completed he was transferred to the United States Strategic Air Force in Europe to prepare plans for air facilities on the continent after the invasion of Normandy. After the invasion he served with the tactical air force in support of ground troops.

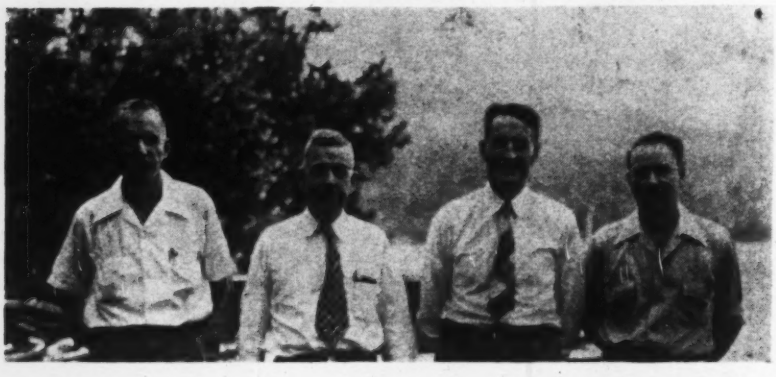
A. R. Bergersen, public works commissioner at Tacoma, Wash., since 1932, has resigned to accept the general managership at Paine-Gallucci Co., Inc., Tacoma general contracting firm.

Lt. Gen. Raymond A. Wheeler, Chief of Engineers, on Aug. 26 bestowed decorations on two Engineer officers and four civilians. The officers were **Col. Emerson C. Itschner** and **Lt. Col. Oliver P. Easterwood.** Col. Itschner received an Oak Leaf Cluster to his Legion of Merit and Colonel Easterwood received the Legion of Merit. The four civilians, each of whom received the Exceptional Service Award, highest decoration that can be bestowed on a civilian by the War Department, are **Franklin F. Snyder, Carl H. Giroux, William H. McAlpine,** and **Malcolm R. Sutherland.**

The architecture and engineering firm of Franklin, Kump and Falk has been formed in San Francisco, following the return from military service of **Lt. Col. Charles H. Franklin,** Corps of Engineers, former partner of **Ernest J. Kump,** architect, and **Mark Falk,** structural engineer. The Ernest J. Kump Co., composed of Kump, Falk and **Dr. Alfred Christensen,** planning consultant, will restrict its professional services in the future to consulting work and surveys in the allied fields of planning, architecture and engineering activities.

Lt. Col. G. P. McCarthy of New York has reported for duty with the Little Rock, Ark., district engineers. Colonel McCarthy was called to active service as a first lieutenant in October, 1940. He was assigned to the New York district engineers office and later was commanding officer of a combat engineer battalion.

Ralph D. Kircher is now in Mexico City with Gibbs & Hill, S. A., as chief engineer in charge of design of power and industrial plants.



Four TVA engineers who will have charge of the work of raising the Tennessee Valley Authority's Hales Bar Dam, are, left to right: H. D. Towers, construction superintendent; C. E. Blee, chief engineer for TVA; G. E. Tomlinson, senior civil engineer and head of special assignments and reports; and A. H. Weber, construction engineer.

H. A. Parker is in charge of irrigation features of the Columbia Basin Project for the Bureau of Reclamation, with headquarters at Ephrata, Wash. A veteran of 37 years with the bureau, Mr. Parker supervises work on many miles of canals, tunnels and siphons, all laterals and two dams, among his many duties.

Joseph F. Cairnes, Massachusetts State Public Works Commissioner, has announced the resignation of **Raymond W. Coburn,** chief engineer of the department, and the appointment of **Philip H. Kitfield** as acting chief engineer. Mr. Coburn will become engineer in charge of construction financed jointly by the state, counties and municipalities. Mr. Kitfield, associated with the department for 25 years, was graduated from Dartmouth College and the Thayer School of Engineering.

A. R. James has been appointed director of construction methods in the construction branch of the Office of Production and Supply, National Housing Agency. From 1907 to 1912 he was in charge of field engineering on the Miraflores Locks, Panama Canal, and then engaged in private practice from 1912 to 1931 in Cleveland, Ohio. From 1931 to 1942 he was construction engineer with the Public Buildings Administration, and from 1942 to 1946 was principal engineer in the material requirements division of the Bureau of Yards and Docks, Navy Department.

Capt. Walter L. Rubel, USNR, who was on the staff of the production officer at the New York Naval Shipyard until his recent separation from the service, has joined the firm of Guy B. Panero, successor to Clyde R. Place, consulting engineers, New York, as an associate in charge of the industrial and power division.

Col. Edward H. Walter, who commanded the task force which constructed the first American air bases

in Greenland in 1941, has been assigned as District Engineer, Corps of Engineers, at Fort Peck, Mont. Colonel Walter will relieve **Lt. Col. H. H. Roberts,** who has been Fort Peck district engineer since September 16, 1942. The latter is expected to be advised of assignment to another post within a short time. He will remain on asignment at the Fort Peck District temporarily. In his new assignment at Fort Peck, Colonel Walter will have charge of the operation of the big Fort Peck Reservoir, built by the Corps of Engineers, and the planning and supervision of Montana projects of the Corps under the comprehensive Missouri River development program.

Arch A. Beville, engineer of operations at Louisville, Ky., has resigned to take a district managership for a construction equipment firm.

J. Edward Rohrer has returned from military service to Alabama Power Co., Birmingham, and been made assistant construction manager in the engineering and construction department. Prior to his call to active duty as a reserve officer, he was assistant superintendent of construction at Chickasaw. During the war he saw service on Guadalcanal, Bougainville and the Philippine Islands with the Corps of Engineers.

Maj. Gen. John Peter Mackenzie has resigned from the Canadian Department of Reconstruction where he was co-ordinator of regional reconstruction councils. Previously he had been associate controller and controller of construction in the Department of Munitions and Supply. Before the war he was general manager of Hamilton Bridge (Western) Limited.

Francisco A. Forero, chief engineer of the Department of Navigation, Ministry of Public Works, Colombia, is visiting this country and recently inspected the New York State Barge canal.

George M. Lemmel has been named acting county engineer of Hamilton County, Ohio, succeeding the late Houston Coatis.

A. W. Green, formerly with the Hooker Electrochemical Co., at Tacoma, Wash., and H. T. Harstad, formerly Pierce county sanitary engineer at Tacoma, have formed a consulting engineer firm with offices in the Fidelity Building, Tacoma, and the Second & Cherry Building, Seattle. They will specialize in water supply, sewerage systems and industrial waste problems.

C. P. Linder has been appointed chief engineer for the South Atlantic Division of the U. S. Corps of Engineers, according to Col. George Gillette, acting Division Engineer. Mr. Linder succeeds R. W. Stuck, who has been transferred to the Chief of Engineers office in Washington, D. C.

Lt. Col. Lawrence T. Smith is now enroute to China where he will make a survey, for the UNRRA, of the bridging required to rehabilitate the Chinese railroads. Prior to the war, Colonel Smith was for many years bridge engineer for the Chicago Park District, but in 1925-26 he was engaged in construction in the Shanghai area. He served overseas in both world wars.

John S. Roberts is the new public works commissioner of Tacoma, Wash., succeeding Abner R. Bergesen, resigned.

Fred O. Jones, chief geologist for the Columbia Basin Project, has left the Bureau of Reclamation to accept a two-year contract with the Chinese government to supervise geological investigations for its Yangtze Gorge Dam.

Emrys E. Lewarch, a junior engineer in the Seattle City Engineering Department, has been granted a leave of absence to accept a $1,400, nine-month engineering fellowship at Yale University's Bureau of Highway Traffic.

Lieut. Col. Robert E. Snetzer of Omaha, Neb., has been appointed executive officer and operations officer for the Seattle District U. S. Army Engineers. A graduate of Iowa State College with a degree in civil engineering, he served throughout the war with the Second Engineer Combat Battalion of the Second Division.

J. W. Franklin, left, is inspector for the Public Roads Administration, and R. F. Templeton is superintendent for the contractor on construction of about 30 miles of finished pavement on the Blue Ridge Parkway, near Mt. Mitchell, N. C.

C. C. Tevis, left, assistant construction engineer; B. F. Leslie, division engineer, and J. D. Barber, division construction engineer for the Missouri highway department, confer over work on U. S. Highway 24 between Clifton Hill and Salisbury.

Four officers of the American Congress on Surveying and Mapping, pictured at a recent meeting at Washington, D. C., are, left to right: Richard T. Evans, treasurer, who is topographic engineer for the U. S. Geological Service; Ralph J. McMahon, vice-president, civil engineer and chief cartographer for Magnolia Petroleum Co., Dallas, Tex.; Capt. Frank S. Borden, president, chief of the division of Charts, U. S. Coast and Geodetic Survey; and Marshall S. Wright, vice-president, civil engineer in the office of the Secretary of Agriculture.

Former partners, Snare and Triest, die at 83

Frederick Snare, Sr., 83, chairman of the board and former president of Frederick Snare Corp. died Sept. 22 at Havana, Cuba, where he has lived for many years. W. Gustave Triest, 83, who retired in 1936 as president of Triest Contracting Corp. died Sept. 21. at Great Neck, N. Y. The two men were partners in Snare & Triest Co. from 1900 until 1919 when Triest withdrew to form Associated Contractors, Inc., and later the Triest Contracting Corp.

Under the long time direction of Frederick Snare, the Snare Corp. has done extensive heavy construction in the U. S., Cuba, Puerto Rico and several Central and South American countries, in many places financing and building complete port facilities. In this country the Snare firm, in recent years, built Tygart Dam in West Virginia, put down the deep foundations for Whitestone Bridge and had an important part in constructing the Goethals and Outerbridge spans connecting Staten Island with New Jersey.

The Triest Corp. built sections of the New York City subway and completed contracts for the New York City Tunnel Authority and the New York City Board of Water Supply.

Houston-Port Arthur superhighway started

The grading for the roadbed and drainage structures on the first section of the $25,000,000 superhighway linking Houston with Port Arthur, Tex., is almost finished. L. E. Reed of Meridian, Tex., is the contractor on the job to be completed by the end of October.

The $25,000,000 road will be known as Highway 73. It will be 290 to 315 ft. wide most of the way, with four concrete paved traffic lanes and an esplanade down the middle separating the lanes into pairs. It is expected that some of the highway will be ready to use in two years and all of it in five years. Early next year work on the $6,000,000 Harris County portion will begin.

Cement anti-trust order vacated by U. S. Court

The U. S. Circuit Court of Appeals in Chicago last week vacated a Federal Trade Commission anti-trust order issued in July, 1943, against the basing price system in the cement industry. The decision was not unanimous, but the majority decision criticized the FTC for "uncertain and indefinite terms" in its reasoning, for basing the 1943 order on findings which were not clear, and for a supporting brief that "does not dispel but increases the doubts to what the respondents agreed to do as a result of the conspiracy charged." The decision also criticized the FTC's contention that small cement companies conspired by following the leadership of the big firms, saying "in all forms of industry would be found price leaders and price followers."

It is understood that the cement industry regards the decisions as supporting completely the industry's contention that the pricing system used is legal and proper.

Calendar of Meetings

NATIONAL

Building Officials Conference of America, annual convention, Peabody Hotel, Memphis, Tenn., Sept. 30-Oct. 3.

Institute of Traffic Engineers, annual meeting, Deshler-Wallick Hotel, Columbus, Ohio, Oct. 3-5.

Federation of Sewage Works Associations, 19th annual meeting, Royal York Hotel, Toronto, Canada, Oct. 7-9.

National Safety Council, annual congress and exposition, Stevens, Congress, Palmer House and Hamilton Hotels, Chicago, Ill., Oct. 7-11.

American Society of Civil Engineers, fall meeting, Continental Hotel, Kansas City, Mo., Oct. 16-19.

Associated General Contractors of America, Inc., fall meeting, Benjamin Franklin Hotel, Philadelphia, Pa., Oct. 21-22.

National Council of State Boards of Engineering Examiners, 25th annual meeting Hotel Statler, St. Louis, Mo., Oct. 27-29.

American Institute of Steel Construction, annual convention, Del Coronado Hotel, Coronado, Calif., Oct. 28-31.

REGIONAL

American Water Works Association, Southwest Section, Buccaneer Hotel, Galveston, Texas, Oct. 14-17.

American Water Works Association, New England Section, Parker House, Boston, Mass., Oct. 17.

American Water Works Association, West Virginia Section, Hotel Morgan, Morgantown, W. Va., Oct. 17-18.

American Water Works Association, California Section, Whitcomb Hotel and Civic Auditorium, San Francisco, Calif., Oct. 23-25.

American Water Works Association, Kentucky-Tennessee Section, Andrew Johnson Hotel, Knoxville, Tenn., Oct. 28-30.

Pennsylvania Water Works Association, Golden Anniversary meeting, Hotel Traymore, Atlantic City, N. J., Oct. 15-18.

Yonkers water supply temporarily endangered

On Sept. 19 the city of Yonkers, N. Y. (population 150,000) had a scare about its water supply when residents were warned to boil all drinking water because about 500,000 gallons of insufficiently protected water had been pumped accidently into the city's mains from the Saw Mill River.

The first warning came from Health Commissioner Berwyn F. Mattison and was repeated through the day by newspapers, radio bulletins and announcements in schools and theaters.

Yonkers gets all its water from the Saw Mill River and the Grassy Sprain reservoir, but in this emergency arrangements were made whereby engineers tapped New York City's water supply system from upstate reservoirs for temporary use.

Commissioner Mattison said that a sudden and unpredictable high chlorine demand in the water from the Saw Mill River resulted in the chlorine residual being insufficient to protect the water completely. It was said that the contaminated water had passed out of the system by last Sunday and that no ill effects on the public health were anticipated.

More lumber access roads to help housing

Funds for fourteen additional access roads to out-of-the-way government timber lands have been allocated to the Office of Indian Affairs, Department of the Interior. Totaling 119.4 miles in length, these roads will permit the cutting and hauling of more than 33 million additional board feet of lumber in 1946 and 96 million board feet in 1947. The use of the roads will continue after the Veterans Emergency Housing Program is concluded, Housing Expediter Wilson W. Wyatt, says.

These projects add $284,000 to the $1,234,000 previously allocated to the Office of Indian Affairs for reconditioning or construction of access roads. A total expenditure of $15,000,000 for access roads was authorized by the Veterans Emergency Housing Act of 1946. Most of the funds have been assigned to the U. S. Forest Service.

Five of the newly-authorized roads are on three Montana Indian reservations—The Flathead, Blackfeet, and Rocky Boys. Two each will be on the following reservations: Chippewa, Minnesota; Cherokee, North Carolina; and Colville, Washington. The others are on the Great Lakes reservation in Wisconsin, Fort Apache reservation, Arizona, and Klamath reservation, Oregon.

ENGINEERING SCHOOL NEWS

Canadian association to help engineer graduates to get jobs—New engineering building at Dayton—Enrollment and faculty items

Steps are being taken by the Association of Professional Engineers of Ontario to find jobs for the many young men soon to be graduated from Canadian universities. A committee has been named to canvas key industries as to possible openings. At the University of Toronto alone, 1,400 engineering students are registered, many of them veterans of the World War and most will be graduated.

Plans for a $500,000 engineering building at the University of Dayton, Ohio, have been announced. The institution hopes to finance a part of the cost with an anticipated $200,000 federal grant for emergency classroom facilities.

The Illinois Institute of Technology expects a peak enrollment of nearly 7,000 students for the fall semester. It was prepared with an all-time record budget of over $5,000,000 for the opening of the fall semester, this week. There will be about 2,800 day students and between 3,000 and 4,000 evening school students.

William Henry Gardner, Jr., who obtained his degree in civil engineering from Duke University in October, 1943, and who recently was discharged from the Navy with the rank of ensign, has been added to the Duke faculty as an instructor in civil engineering.

Massachusetts Institute of Technology, Cambridge, Mass., has been authorized to construct an experimental laboratory for conducting research in solar heating.

David L. Snader, formerly professor of civil engineering at Stevens Institute of Technology, Hoboken, N. J., has been appointed professor of civil engineering at Norwich University, Northfield, Vt. In addition to a wide experience in teaching and practicing in the engineering profession, he holds degrees of civil and architectural engineer, Master of Arts, Master of Science, and Doctor of Philosophy.

Three thousand men and women students—the largest enrollment in the history of the institution—are expected at Carnegie Tech, Pittsburgh, Pa., when day school classes begin Oct. 1.

Housing, complicated by the enrollment of many married veterans, is the chief problem this fall. Part of the housing difficulties have been overcome with the construction of emergency frame units of the military type obtained from the Government from surplus facilities.

W. R. Work, head of the Veterans Center, estimates that over 80 per cent of the male day students will be veterans.

The expedited engineering program (three semesters a year) made necessary by wartime speed-up policies, is being continued.

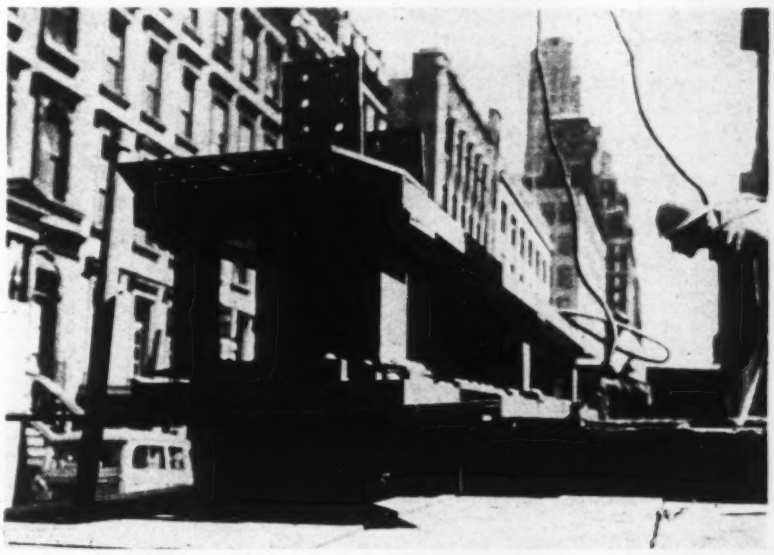
Herbert H. Wheaton, for the past four years a staff member of the radiation laboratory, Massachusetts Institute of Technology, has returned to Fresno State College, California, to resume his duties as professor in the department of mathematics and engineering. A graduate of the University of California and (1932-33) Freeman Scholar in hydraulic model studies in Germany for the American Society of Civil Engineers, Mr. Wheaton left his post at Fresno in June 1942 to take part in research and development programs on radar at MIT.

Seek building moratorium to help veterans' housing

Gov. Mon C. Wallgren of Washington has appealed to people of that state to institute a voluntary 90-day moratorium on industrial and commercial building in order that materials may be used to construct homes for veterans.

He also asked that the CPA cancel all permits where work has not begun, that suppliers of critical materials channel their entire output into the unfinished veterans' homes, that mills and factories in the area cooperate by diverting from exports and shipments to other parts of the United States equitable quantities of materials needed for the local area and that industrial and commercial builders make inventories and divert any stockpiles of critical items into unfinished homes.

The governor's action had been sought by four state veterans' groups, who also retained a full time housing expediter for veterans' homes.



***Massive Column for Skyscraper**—Delivered to the site of the 33-story Esso Building addition to Rockefeller Center in New York City (ENR Sept. 13, 1945, vol. p. 344), a 30-ft. long, 20-ton built-up steel column is ready to be placed between the subcellar and the first floor. The core is a 14-in. 320-lb. rolled H-section with 32 x 3¼ in. cover plates. Columns are spaced about 30 ft. apart in the area where this member is used. Carson & Lundin are architects, with Wallace K. Harrison as consultant; Edwards & Hjorth, structural engineers; and John W. Harris Associates, Inc., general contractors. Another view is shown on the cover of this issue. The steel skeleton has been erected to about the third floor level.*

Pacific Gas & Electric Co. to spend $21,000,000

The Pacific Gas & Electric Co. has announced plans for a $19,000,000 expansion of power generating capacity at its Station P steam plant at Hunters Point, Calif., and a $2,180,000 extension to its San Francisco general office building.

Two 100,500 hp. turbine generators will be installed in a new $1,870,000 building adjacent to Station P, the company said. Steam will be provided by four outdoor boilers, each with a normal capacity of 450,000 lbs. of steam an hour.

The office building extension will increase the size of the present 16-story structure by 57 per cent, involving adding ten stories to an uncompleted three-story Beale Street wing of the existing building and constructing of an adjoining 13-story building.

Building plans specify a structural steel and concrete frame with the same type of granite finish and architectural treatment as the main building.

Panhandle irrigation reduces water table

Withdrawal of 450,000,000 gallons of underground water daily to irrigate 550,000 acres on the Texas Panhandle plains is causing a decline in the subsurface water level, according to a new engineering report, issued jointly by the State Board of Water Engineers and the U. S. Geological Survey's ground water division, following several months of research in the Plainview-Hereford area.

The big irrigated district is located on a tableland of over 3,000 ft. altitude north of Lubbock. The first wells were drilled about 40 years ago, but fewer than 300 were operating in 1934 when the irrigated acreage was estimated at 35,000. There now are 4,500 wells operating. The water agencies compared wells in seven counties, showing pumping levels had declined from five to 24 ft. between 1939 and 1946.

The Texas legislature next year is expected to consider adopting regulations for underground water resources.

Bids sought for work in Westchester County, N.Y.

Construction of public works in Westchester County, N. Y., estimated to cost in excess of $2,000,000 will be sought in bids to be opened by Charles H. Sells, State Superintendent of Public Works on Oct. 2, at Albany.

One job is reconstruction of slightly more than one mile of Route 9 from Peekskill toward Annsville, with 46-foot concrete pavement including a new five-span steel deck girder bridge over Peekskill Creek. This structure, 456 ft. in length, is to replace a timber trestle which was damaged by fire last summer and closed, requiring a lengthy detour to reach Camp Smith and the approach to Bear Mountain Bridge.

This project also includes construction of a traffic circle on the west bank of the creek to provide connections to Bear Mountain Bridge approaches and relocation of existing highways. Total estimated cost is $860,000.

Parkway extension planned

Another county project is extension of the Saw Mill River Parkway from Main Street, Chappaqua, to West Main Street, Mount Kisco, a distance of 4.11 miles. The job includes paving of two 24-foot concrete arteries on the county-owned right-of-way which was rough-graded several years ago. Total cost is estimated by state engineers at $1,145,000.

Construction costs of both projects are to be met by the state, with the county providing any additional right-of-way needed.

Allotments made for 5-year hospital program

Allotment figures to the states for the five year hospital construction program authorized in the Hospital Survey and Construction Act (Public Law 725) have been released by Surgeon General Thomas Parran of the United States Public Health Service. The act authorizes the appropriation of $3,000,000 for statewide hospital surveys and for planning of construction programs, and $75,000,000 annually for five years for the actual construction of hospitals and related facilities.

Of these amounts authorized, only $2,350,000 has been appropriated to date. This is earmarked for assistance to states in surveying and planning and for administrative expenses of the U. S. Public Health Service in connection with this program.

Based on population

The share to which each state is entitled from the $3,000,000 authorization for survey and planning expenses is based solely on State population. For determination of the distribution of the $75,000,000 authorized for construction, a formula is used which takes into consideration both the population and the per capita income of each state.

The allotments to the several states based on appropriations authorized in the act are contingent upon Department of Commerce certification of population data. Preliminary estimates are shown in the accompanying table.

	Survey and Planning	Construction
Alabama	$62,422	$2,888,925
Arizona	13,482	452,175
Arkansas	39,294	1,968,300
California	185,820	1,957,875
Colorado	24,279	657,300
Connecticut	40,474	421,950
Delaware	10,000	86,625
Florida	47,141	1,461,900
Georgia	68,735	2,978,775
Idaho	10,531	293,550
Illinois	172,752	2,771,175
Indiana	77,526	1,727,775
Iowa	51,182	1,341,675
Kansas	37,908	933,750
Kentucky	57,672	2,589,600
Louisiana	53,631	2,156,850
Maine	17,671	454,875
Maryland	46,167	870,675
Massachusetts	93,515	1,595,550
Michigan	124,372	2,172,000
Minnesota	56,876	1,655,700
Mississippi	45,548	2,403,825
Missouri	79,679	2,282,550
Montana	10,355	231,825
Nebraska	26,461	685,200
Nevada	10,000	49,575
New Hampshire	10,207	342,375
New Jersey	93,928	1,313,775
New Mexico	11,210	457,500
New York	282,492	2,945,100
North Carolina	76,287	3,432,825
North Dakota	11,889	308,475
Ohio	156,144	2,692,575
Oklahoma	44,427	1,640,550
Oregon	27,317	460,875
Pennsylvania	209,243	4,551,675
Rhode Island	15,989	280,275
South Carolina	41,123	1,976,775
South Dakota	12,066	359,625
Tennessee	64,812	2,673,300
Texas	145,051	4,842,075
Utah	13,541	365,100
Vermont	10,000	214,725
Virginia	64,310	2,210,175
Washington	44,722	512,100
West Virginia	39,294	1,555,650
Wisconsin	67,142	1,622,925
Wyoming	10,000	144,975

Seek civil engineers for Tactical Air Command

A "considerable number" of professional civil engineers are needed to aid in an expansion now going forward for the Army's Tactical Air Command, Col. A. C. Welling, chief engineer, announced last week.

The staff engineer organization of TAC will provide complete technical service for all TAC bases in the United States, Col. Welling said. This service will cover most phases of engineering and maintenance, including highway paving, railway construction, sewer and water works and structural work, the engineer said.

Engineers interested in employment with TAC should obtain Standard Form 57, U. S. Civil Service Commission, at the nearest civil service office, and forward the completed form to Colonel Welling at Tactical Air Command, Langley Field, Va.

OBITUARY

George M. Tripp, 70, construction engineer of the British Columbia Electric Railway Co. died at Victoria, B. C., Sept. 12. Mr. Tripp entered the service of the company 48 years ago. Major hydro-electric plants erected under his supervision are that at Goldstream in 1898, at Jordan River, 1909, and the Brentwood Steam Station in 1911.

George Farrell, 82, retired San Francisco, Calif., contractor, died Sept. 14. He built several of the city's larger buildings, including the Shriners' and St. Luke's hospitals, and the Crocker Bank building.

Fred W. Guttermann, 48, a civil engineer for the city of Los Angeles, Calif., died Sept. 5.

John B. Bray, 59, civil engineer and state superintendent of buildings and grounds of North Carolina since 1939, died in Raleigh Sept. 14. A civil engineering graduate of North Carolina State College in 1911, he was first with the U. S. Engineers office. He took up private engineering in 1914. Elected commissioner of public works for Raleigh, he served from 1919 to 1923, and resigned to become city manager of Elizabeth City.

Sidney M. Siesel, 57, contractor, died in Milwaukee, Wis., Sept. 15. He was a civil engineer graduate of Carnegie Tech, and founded the Siesel Construction Co. in 1922. He had been president of the Milwaukee chapter of the Associated General Contractors of America and was also a member of the National board of directors of that organization. Among the larger buildings he constructed in Milwaukee are the County courthouse, Mariner Tower, the Plankington Arcade and the Shorecrest Hotel.

John David Hutchinson, 82, a retired U. S. Reclamation Service engineer, known for his work in the Sacramento Valley of California, died at Fresno, Sept. 12.

Roscoe C. Sloane, professor in the civil engineering department of Ohio State University, died Sept. 17 at Columbus, Ohio. He had been associated with various industries after graduation from old Franklin College in 1905 until 1913 when he joined the faculty of Ohio State University. During the summer months Professor Sloane had also served as construction engineer with the State Highway Department.

William H. Harvey, Sr., 73, civil engineer, died at Water Valley, Miss., Sept. 9. A graduate of the Mississippi A & M College, for many years he followed his profession in Memphis and Mississippi, chiefly in the construction of power plants and sewage systems.

Joseph Walker Cottin, 46, civil engineer, died in Birmingham, Sept. 18.

Leonard J. Young, 52, formerly city engineer of Torrance, Calif., died in that city, Sept. 17.

Thomas Hardman, 53, consulting engineer, Terre Haute, Ind., died Sept. 15. He was graduated from Rose Polytechnic Institute in 1914, and for many years was associated with the Foukles Construction Co., Terre Haute. He had designed and supervised the construction of many water and sewage plants in western Indiana and eastern Illinois.

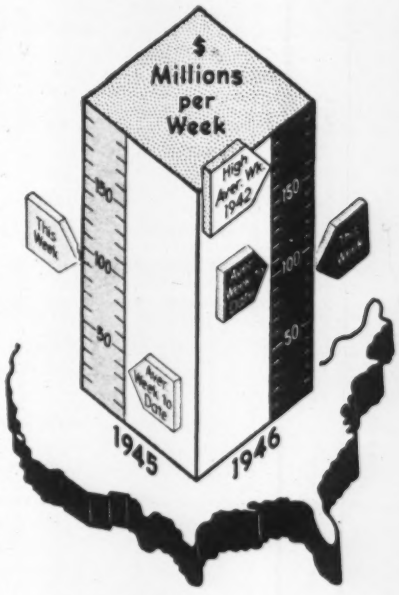
William H. Shafer, 85, director of the Consolidated Irrigation District, died Sept. 14 in Selma, Calif. A graduate of Van der Nailen School of Engineers, San Francisco, Shafer surveyed many of the district's irrigation ditches before the turn of the century. He was resident engineer for the privately-owned Consolidated Canal Co., and in 1925, after formation of the district, he became chairman of the board of directors.

Franklin Bache, 77, engineer, and descendant of Benjamin Franklin, died Sept. 17. He was an honor graduate of the Engineering School of the University of Pennsylvania and took part in the United States Coast and Geodetic Survey in 1890.

Paul D. Millholland, 82, retired civil engineer, railroad executive and industrialist died Sept. 16 at Philadelphia, Pa. Before retirement in 1927, he was associated for many years with the Bethlehem Steel Co. He helped build the Georges Creek and Cumberland Railroad, now part of the Western Maryland system, and had been general manager of Reading's Neversink Mountain Railroad. He was a native of Reading and a graduate of Lehigh University, class of 1886, whose 60th reunion he attended in June.

Samuel L. Smedley, 85, retired building contractor and president of the Delaware County Park and Recreation Board since its establishment in 1932, died Sept. 19 at Media, Pa. He was an active worker for park development.

CONSTRUCTION ACTIVITY



As Reported this week to ... *Engineering News-Record*

CONTRACT VOLUME

Continental U. S. Only (Thousands of Dollars)

	Week of Sept. 26 1946	Cumulative 1946 (39 wks.)	Cumulative 1945 (39 wks.)
Federal	$19,939	$540,117	$675,908
State & Mun.	30,128	1,058,849	258,582
Total Public	$50,067	$1,598,966	$934,490
Total Private	34,007	2,484,195	561,764
U. S. Total	**$84,074**	**$4,083,161**	**$1,496,254**

WHERE CONSTRUCTION ACTIVITY ORIGINATED THIS WEEK

Dollar Volume (Thousands)

Type of Work	This Week	Cumulative 1946 (39 wks.)	Cumulative 1945 (39 wks.)
Waterworks	$3,717	$78,474	$40,344
Sewerage	4,281	77,312	24,213
Bridges	3,495	104,961	25,888
Highways	12,677	602,002	168,804
Earthwork, Waterways	19,785	312,736	38,301
Buildings, Public	5,090	293,565	413,548
Industrial	9,612	797,516	362,097
Commercial	16,653	1,520,497	129,560
Unclassified	8,764	296,098	293,499

NOTE: Minimum size projects included are: Waterworks and waterway projects, $22,500; other public works, $40,000; industrial buildings, $55,000; other buildings, $205,000.

NEW PRODUCTIVE CAPITAL

		Cumulative 1946 (39 wks.)	Cumulative 1945 (39 wks.)
NON-FEDERAL	Current		$599,338
Corporate Securities	figures		139,360
State and Municipal	not		296,378
RFC Loans	available		24,600
REA Loans			60,000
Fed. Aid Highway			79,000
FEDERAL			1,049,898
Total Capital			$1,649,236

ENR INDEX NUMBERS

Index Base=100		1913	1926
Construction Cost	Sept. '46	360.19	173.14
Building Cost	Sept. '46	272.04	147.06
Volume	August '46	258	113

CONSTRUCTION REPORTS

Bids Asked — Low Bidders — Contracts Awarded

(Daily service also available—Write for details)

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ELSIE EAVES, Manager *J. A. MAHONEY, Reports* *J. V. McEWEN, M. R. ROESSLER, Statistics*

WATER SUPPLY

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

Ont., Hearst—Town, E. Chevrie, clk., WW and sewerage sys., incl. supply, erection equip., appurtenances. About $225,000. Bids 8/26 not accepted. G. G. Reid, 264 Avenue Rd., Toronto, engr. CD 8/13.

Bids Asked October 1

Ind., Jasper—Bd. P. Wks., H. E. Thyen, chn., WW imprvs., Div. 1, 1 m. g. steel standpipe, Div. 2, watermain, Div. 3, 12,000 lin. ft. 6- to 16-in. c. i. pipe, Div. 4, watermain materials, (valves, hydrants) Div. 2A, concrete tank foundations. $70,000. Plans deposit $20. L. I. Couch, 227 W. Edwards Ave., Indianapolis, engr. CD 8/29—ENR 9/5.

N. C., Rose Hill — Town, W. D. Herring, mayor, WW imprvs., well, pump and pump house, water lines. Plans deposit $5. P. M. Van Camp, Southern Pines, engr.

Bids Asked About October 7

Minn., Walnut Grove—Village, A. W. Olson, clk., about 17,870 lin. ft. mostly 6 in. watermains. $63,000. Banister Eng. Co., 1547 University Ave., St. Paul, engr.

Bids Asked October 9

Tex., Colorado City—City, C. Brazil, mayor WW, sewer equip. and materials, incl. 1,000 g.p.m. high service water pump, three 250 g.p.m. and two 300 g.p.m. raw sewage pumps, sludge pump, ventura meter, chlorinator equip. and digestion tank equip., sludge collector equip. and filter distributor, c.i. pipe, hydrants, fittings, well casing pipe, clay pipe, etc. Freese & Nichols, Danciger Bldg., Fort Worth, engrs. CD 4/25—ENR 5/16.

Tex., Galena Park—City, c/o Secy., exten. water supply sys. $25,000. Plans deposit $25. Wyatt C. Hedrick, 5201 Fannin St., Houston, engr. CD 11/23/45—ENR 11/29/45.

LOW BIDDERS

Ill., Arenzville—Village, Village Hall, Sept. 3, water supply imprvs., watermains, fire hydrants, service connections, from Rees Constr. Co., 517½ Kentucky Ave., Quincy. $35,797. CD 8/14—ENR 8/22.

†Md., Hyattsville — Washington Suburban Sanitary Comn., Hamilton St., Sept. 13, Contr. 270 W and S, 3,565 ft. 6- to 17-in. c.i. watermains and 4,350 ft. 6- to 10-in. concrete sewers, Oakland Terrace, Plyers Mill, Emmett and Harmon Rds., Brunswick St., from Leo Butler Co., 8416 Ga Ave., Silver Spring. $30,141. CD 9/4.

N. C., Valdese—Town, M. H. Rutherford, mayor, Sept. 5, WW. imprvs., rein.-con. reservoir, incl. piping, valves, appurtenances, from Boyd & Goforth, Inc., 617 N. Smith St., Charlotte. $26,788. CD 9/3—ENR 9/5.

Tex., Houston—City, c.i. watermains in Preston and Dart Sts., etc., from A. Bland Constr. Co., 707 N. Drennon St. $118,290. CD 9/3—ENR 9/19.

Tex., Houston—City, c/o M. H. Westerman, secy., watermains in Telephone Rd., from J. Bland Const. Co., 4704 E. 1 St., Austin. $98,-611. CD 9/10.

CONTRACTS AWARDED

Conn., Waterbury—City, City Hall, 9,500 ft. 6 and 8 in., watermains, East Mountain Rd., to Naugatuck Valley Contractors, 72 Shelley St., $53,000; storm and sanitary sewers, watermains, Watertown Ave. and Vernon St., to Seminole Constr. Co., P. O. Box 350, East Hartford, $35,140. Bids 8/26. C. A. Root, city engr. CD 8/26.

★**Ga., Savannah**—City, c/o Water Comn., water supply sys., heating, to Poe Pipe & Heating Co., $31,783***filtration plant, to Virginia Engrg. Co., Norfolk, Va., approx. $2,110,000***raw water lines and distr. line to Gair, Inc., to Jones Constr. Co. and Diamond Constr. Co., 44 E. Bay St., $146,000. Grand total $2,587,783. CD 8/30—ENR 9/5, under LB.

Ill., Canton—City, K. Sporer, clk., WW extens., imprvs., to R. A. Cullinan, Tremont, Ill. $21,950. CD 8/19—ENR 8/22, under L. B.

Ore., Portland—Maplewood Water Dist., 8610 S. W. 52 St., 2 convered, concrete reservoirs, to E. E. Settergren, Henry Bldg. $47,-157. C. E. Carter, Spalding Bldg., engr.

Pa., Franklin—City, City Bldg., pump. house and equip., to H. T. Osborn Co., 12 St. Est. $30,000. J. McSnow, City Bldg., city engr.

Pa., Phila.—Dpt. P. Wks., City Hall Annex, Phila., WW 1-312, filter plant cleaning, to Eastern Eng. Co., 4 N. North Carolina Ave., Atlantic City, N. J. $145,864. Awarded 9/12. CD 3/11—ENR 3/21.

Tex., Bellaire—City, c. i. water lines to W. A. McClendon, 4617 Walker St., Houston. Approx. $29,000. J. B. Dannenbaum, Bellaire, engr.

Tex., Houston—Home Owned Properties, United Gas Bldg., c.i. water lines, to L. M. George, Market St. Rd. $33,260. Howe & Wise, Stuart Bldg., engrs.

Utah, Clearfield—Town, 1 m.g. concrete water tank, to Mendenhall & Whitney, Springville. $32,000. Bids 8/26. CD 1/31—ENR 2/21.

Va., Brodnax—Town water distr. sys., pump station, to Boyd & Goforth, 617 N. Smith St., Charlotte, N. C., $41,730; steel storage tank to Pittsburgh-DesMoines Steel Co., Neville Island, Pittsburgh, Pa., $15,250. Est. $56,980. Bids 9/16. CD 9/5—ENR 9/12.

SEWERS, WASTE DISPOSAL

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

Ont., Brockville—Town, H. W. Carswell, clk., sewers and connections, incl. some supply pipe. About $45,000.

Bids Asked October 2

Va., Narrows—Town, 2 sewer treatment plants, 1 sewage pump. station, 2 ejector plants, 2 sewage collection sys., incl. manholes, etc. $200,000. Plans deposit $25. R. Stuart Royer, Exchange Bldg., Richmond, consult. engr.

Bids Asked October 7

Calif., Stockton—San Joaquin Co., Court House, imprv. sewerage sys., 2,300 lin. ft. 8- to 18-in. intercepting sewer, manholes, connections, sewer lines, sewage treatment plant, effluent holding basin, San Joaquin General Hospital. Plans deposit $15. C. C. Kennedy, 604 Mission St., San Francisco, engr.

Bids Asked October 9

Mass., Boston—At office Metropolitan Dist. Water Supply Comn., 20 Somerset St., Boston, Contr. 139, approx. 22,000 ft. 12 in. sludge disposal line from Nut Island to President Roads in town of Hull and cities of Quincy and Boston, and outfall diffusers in town of Hull. Plans deposit $10. K. R. Kennison, ch. engr.

Bids Asked October 15

Calif., Los Angeles—Los Angeles Co., Hall of Records, 66,240 ft. 6- to 18-in. v.t.r. clay sanitary sewers, Norwalk Blvd. and other streets, vicinity of Whittier, C. I. 1137. $218,400. A. Jones, c/o owner, engr. CD 8/22—ENR 9/5.

Bids Asked October 22

Ga., Albany—City, at office C. Q. Wright, city mgr., City Hall, imprv. combined sewerage sys., 2 pump. stations, appurtenances, etc. Plans deposit $25. Wiedeman & Singleton, 1303 Citizens & Southern National Bank Bldg., Atlanta, engrs.; adv. ENR 9/26. CD 10/15—ENR 11/1.

Bids Asked January 10

Ill., Kewanee—City, E. F. Peterson, clk., 25,000 ft. 8- to 24-in. sanitary sewers, lift station, 3,700 ft. 4 and 8 in. c.i. force mains, ejector station, etc. Plans deposit $25. Stanley Eng. Co., Muscatine, Ia., engr.

LOW BIDDERS

Calif., San Francisco—Dpt. P. Wks., City Hall, Sept. 11, replacing Baker St. storm water outfall, Spec. 19,806, from Duncanson & Harrelson, 690 Market St. $42,716.

Calif., San Leandro—City, City Hall, rejected bids Sept. 10, storm sewer, Davis St. between Gardner Blvd. and San Francisco Bay. L. B. $132,173. CD 9/18—ENR 9/26.

Miss., Meridian—City, c/o Mayor & Bd. Comrs., City Hall, cancelled bids to have been opened Sept. 17, 50,910 lin. ft. 6- to 48-in. sewers, 185 manholes and inlets. $200,000. Will readvertise. CD 8/28—ENR 9/5.

N. C., Louisburg—Town, C. K. Stockard, clk., received no bids Sept. 12, sewage treatment plant, septic tank, dosing tank and sand filter. Will readvertise. Pierson & Whitman, Security Bank Bldg., Raleigh, engrs. CD 8/26—ENR 8/29.

Tex., Houston—City Sept. 9, 36 and 42 in. monolithic concrete storm sewers in Lawndale Ave. fom Elder Constr. Co., 2223 Cortindt St. $68,879. Est. $75,000. G. L. Fugate, City Hall, engr.

Wash., Morton—City, City Hall, Sept. 12, sanitary sewerage sys. and treatment plant from Thorburn & Lozozo 4608 36 Ave. S. W., Seattle. $99,176. Est. $83,566. CD 8/30—ENR 9/5.

Wash., Newport—Town, Town Hall, Sept. 11, treatment plant, trunk sewer and lateral sewers, from Rushlight Automatic Sprinkler Co., 407 S. E. Morrison St., Portland, Ore. $160,033. CD 8/22—ENR 8/29.

CONTRACTS AWARDED

Ill., LaGrange—Village, Village Hall, storm sewers, to Emil Till, 1815 N. Newcastle Ave., Chicago. $68,132. Bids 8/16, awarded 8/27. CD 8/14.

★**Mass., Boston** — Commonwealth of Mass., 20 Somerset St., Boston, Nut Island sewerage treatment plant, to V. Barletta Co., 10 Whipple Ave., Roslindale, $1,179,736. CD 8/16—ENR 8/22, under LB., Massachusetts.

Mass., Pittsfield—City, Dpt. P. Wks., 2 story brick, concrete incinerator, to N. Benvenuti & Sons, 16 Elm St., New London, Conn. $179,000. CD 7/31—ENR 8/1.

Minn., Alexandria—City, H. S. Campbell, clk., sewage treatment plant, to Nodland & Ahlberg, Starbuck, $150,000. Bids 9/9. CD 8/21—ENR 8/29.

Minn., South St. Paul—City, J. F. O'Donnell, recdr., sewer and watermain extens., to Lametti & Lametti, 615 Drake St., St. Paul. $41,149. Bids 9/3.

N. Y., Syracuse—Dpt. Contr. & Purchase, City Hall, storm and sanitary sewers in Goodrich Ave. and Thayer St., to Antonio Mondo, 2614 Lodi St., $39,793. N. F. Pitts, city engr. CD 8/15.

O., East Cleveland—L. C. Carran, city mgr., 14340 Euclid Ave., City Hall, design and construction, incinerator, to Nichols Eng. & Research Corp., 60 Wall Tower, New York, N. Y., $119,820. Est. $125,000. Bids 9/4, awarded 9/10. CD 8/5—ENR 8/15.

Okla., Meeker—City, sanitary sewerage sys. and sewage disposal plant, to Lippert Bros. Co., 2800 N. Santa Fe St., Oklahoma City. $58,000. Est. $55,000. Awarded 9/10. CD 4/4.

PROJECTS COVERED

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks $22,500; other public works $40,000; industrial buildings $55,-000; other buildings $205,000.

Classes of Construction

(Name in order of Listing)

Water Supply	Latin America
Sewers, Waste Disposal	Public Buildings
Bridges	Commercial Buildings
Streets & Roads	Industrial Buildings
Earthwork, Waterways	Unclassified

Stages Reported

PROPOSED WORK: Including appointment of engineers or architects.

BIDS ASKED (new announcements only). For full calendar, see also preceding issues of ENR.;

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Symbols and Abbreviations Include:

†	Federal Government
★	Project of $1,000,000 or over.
ENR	Engineering News-Record
CD	Engineering News-Record Construction Daily

SEWERS, WASTE DISPOSAL (Contracts Awarded, Cont'd.)

Tex., Bellaire—City, sanitary sewer lines, to W. A. McClendon, 4617 Walker St., Houston. Approx. **$42,200.** J. B. Dannenbaum, Bellaire, engr.

Tex., College Station—A. & M. College, College Station, sanitary sewers, to J. W. Munday Constr. Co., 4515 Galveston Rd., Houston. Approx. **$46,605.** Bids 8/12. CD 8/5.

Tex., Lott—City, c/o Mayor, sanitary sewers, sanitary sewerage sys., disposal plant, trickling filter, to J. D. George, 3331 Parkwood Dr., Houston, **$50,267.** Est. $50,000. Bids 9/4, awarded 9/10. CD 9/10—ENR 9/19.

Tex., Houston—Home Owned Properties, United Gas Bldg., sanitary sewers, to L. M. George, Market St. Rd. **$44,000.** Howe & Wise, Stuart Bldg., engrs.

Utah, Provo—City, I. G. Bench, city recdr., sanitary sewers, Sewer Dist. 32, to Enoch Smith Sons Co., 1441 Beck St., Salt Lake City, **$63,685.** Bids 9/3 T. H. Latimer, Jr., city engr.

Wash., Spokane—City, City Hall, 16,000 ft. 7- to 48-in. trunk and lateral sewer in Garland Ave., to Weller Bros., N. 633 Madella St. **$140,997.** Bids 9/12. C. E. Davis, city engr.

Wis., Green Bay—Town, R6, Green Bay, storm sewers, in Allouez, near here, to Chapel & Amundson, 908 S. Bway., Green Bay. **$59,529.** Bids 9/9. Foth & Porath, Inc., 409 E. Walnut St., engr.

Ont., Wallaceburg—Town, G. F. Glassford, clk., drainage sys. (storm sewers) for north and northwestern portions of town, to Keystone Contractors Ltd., McDougall Ave., Box 793, Windsor. **$57,507.**

BRIDGES

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

Connecticut—State Hy. Dpt., W. J. Cox, hy. comr., Hartford, steel girder viaduct over New York, New Haven & Hartford R.R., and Connelly Parkway, grading 750 ft. Wilbur Cross Parkway, Hamden.

Pennsylvania and New Jersey — Delaware River Joint Toll Bridge Comn., Broad St. and Bank Bldg., Trenton, N. J., foot bridge between Lumberville, Bucks Co., Pa., and Raven Rock, Hunterdon Co., N. J. Over $40,000. Edwin W. Denzler, Broad St. Bank Bldg., Trenton, N. J., engr.

Bids Asked October 9

Tennessee and Arkansas—Dpt. Hys. & Pub. Wks., Nashville, Tenn., and State Hy. Comn., Little Rock, Ark., 440.52 lin. ft. approach between existing embankment and end of hy. bridge over Mississippi River between Memphis, Tenn. and Crittenden Co., Ark.; 10 approach piers, rein.-con. trestle of Arkansas approach to new hy. bridge across Mississippi River at Memphis, Tenn. Modjeski & Masters, State Bldg., Harrisburg, Pa., engrs. CD 11/8/45—ENR 11/15/45.

LOW BIDDERS

California—State Div. Hys., Sacramento, Sept. 18, bridge across Bear Slough, Sacramento Co., from H. Earl Parker, 12 and F Sts., Marysville. **$317,665.** Received no bids Sept. 18, bridge across Moody Slough, Yolo Co. CD 8/26—ENR 8/29.

Connecticut—State Hy. Dpt., Hartford, Sept. 9, concrete slab bridge Hammock River, etc., Clinton, from Charter Oak Const. Co., 525 Main St., Hartford. **$66,140.** CD 8/30—ENR 9/5.

Illinois—State Hy. Dpt., Springfield, rejected bids Aug. 27, rein.-con. girder bridge over Walnut Creek, FA Rte. 36, Dist. 6, Sect. 43B, Proj. F-108(8), Pike Co., L.B. **$78,094**; structural steel for I-beam superstructure for bridge over Pidgeon Creek, FA Rte. 36, Dist. 6, Sect. 43F, Proj. F-108(8), Pike Co., L.B. **$15,705.** CD 8/20—ENR 8/22.

Massachusetts—State-County-Town, Chap. 90, 100 Nashua St., Boston, Sept. 17, bridge and approaches, Pittsfield, from Petricca Const. Co., 534 W. St., Pittsfield. **$42,117** CD 9/10—ENR 9/12.

New Jersey—State Hy. Dpt., State House Annex, Trenton, Sept. 17, overpass at Main Ave. and River Rd. Relocation, Route S-3, Sect. 4-B, FAP F-186 (6), in Clifton, Passaic Co., from Franklin Constr. Co., 112 Central Ave., Newark. **$217,324.** CD 8/29—ENR 9/5.

New York—H. A. Cohen, dir. Bureau Contrs. & Accounts, Albany, Zone 1, Sept. 18, 0.07 mi. bridge 2, Steuben Co., from Davery Constr. Corp., 70 Pine St., New York, **$154,541.** Est. $155,000. CD 9/5—ENR 9/12.

South Carolina—State Hy. Dpt., J. S. Williamson, dir., Columbia, Sept. 17, bridge work, Horry and Marion Counties, from J. W. Barnwell, Jr., 2206 Terrace Way, Columbia. **$267,451.** CD 9/6.

CONTRACTS AWARDED

New York—Bureau Contr. & Accounts, Albany, 4 grade separations, etc., Nassau Co., to Andrew Weston Co., Inc., 158 Irving Pl. Woodmere. **$569,875.** CD 8/23—ENR 8/29, under L. B.

N. Y., New York—Executive Dir. Port of New York Auth., 111-8 Ave., Zone 11, paving center roadway of George Washington Bridge. Contr. GWB 3, to Poirier & McLane Corp., 33 W. 42 St., Zone 18. **$340,000.** Bids 8/6. CD 7/15—ENR 7/18.

O., Cleveland—City, City Hall, Lakeside Ave. at E. 6 St., reconstructing approaches to the bridge carrying E. 152 St. across New York Central tracks to National Eng. & Contr. Co., W. 4 St. and Central Ave. **$513,768.** Awarded 9/11. J. C. Wenrich, City Hall, engr. CD 9/7/44—ENR 9/21/44.

STREETS AND ROADS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

Connecticut—State Hy. Comn., W. J. Cox, comr., Hartford, graveling 5,600 ft. Grassy Hill Rd., Woodbury-Southbury, 6,993 ft. Rocky Hill Rd., Woodstock, Plans deposit $2.55 each; 9,692 ft. North Rd., Granby, Plans deposit $3.74; 1,818 ft. concrete sidewalks, Rd. 426, Saybrook, Plans deposit $1.87; graveling 16,634 ft. Bennett, Carroll, Second Mill, Old Beach Pond, Lundstrom, Torckle Hill, Gardner and Hodge Pond Rds., Voluntown, Plans deposit $7.31; 6,243 ft. Ryder and Puttker Rds. and 8 x 10 ft. rein.-con. box culvert over Green Falls Brook, North Stonington, Plans deposit $2.89; bituminous concrete paving 4,170 ft. Howe Ave., Rtes. 8 and 110, Shelton; 1,983 ft. storm sewer drainage, Park and Jerome Aves., Bloomfield, Plans deposit $1.02; bituminous macadam paving 395 ft. intersection Rtes. 185 and 218, Bloomfield-West Hartford, Plans deposit $2.04; grading, drainage 16,400 ft. Wilbur Cross Hy., 20 ft. span rein.-con. slab bridge over Skingamaug River, 6 x 8 ft. rein.-con. box culvert over brook, FAP FI-130-I, Tolland, Plans deposit $16.15; bituminous macadam paving 2,503 ft. Floydville Rd., and waterbound macadam paving 1,100 ft. Kripes Rd., East Granby, Plans deposit $2.38; graveling 7,110 ft., Smith and Robinson Rds., Franklin, Plans deposit $2.89; bituminous concrete surfacing, 1,780 ft. Maple St. Bridge and Central St., Ansonia, Plans deposit $8.56; concrete arch barrel culvert over Oxoboxo Brook, graveling 320 ft. approaches, Montville, Plans deposit $1.19; graveling 425 ft. approaches, 15 ft. span rein.-con. slab bridge over Hop Brook, Simsbury, Plans deposit $1.02; asphaltic concrete paving 770 ft. Elizabeth St., Derby, Plans deposit 51c.

Pa., Phila.—Dpt. P. Wks., City Hall Annex, paving, drainage, curbing 2 and Luzerne Sts. Over $40,000. Thomas Buckley, ch. engr.

Bids Asked October 1

N. C., Rose Hill—Town, W. D. Herring, mayor, street imprvs. Plans deposit $5. P. M. Van Camp, Southern Pines, engr.

Washington—State Hy. Dpt., C. B. Shain, dir., Olympia, grading, surfacing 19.9 mi. Primary State Hy. 9, Queets River to Hoh River, Jefferson Co.; 4.192 mi. West Side Dairy and North Levee Rds., Pierce Co.; 0.384 mi. Primary State Hy. 22, Gerome Slide, Stevens Co.; clearing, grubbing, grading, surfacing 0.797 mi. Butler's Cove Rd., Thurston Co. Bids 9/4 rejected. CD 8/20—ENR 8/22.

Bids Asked October 2

Louisiana—State Dpt. Hys., Baton Rouge, grading, concrete paving 1.387 mi. Peters Rd. Rte. C 1460, SP 826-11-02, Jefferson Parish. Plans deposit $5 without cross sections, $9 with cross sections.

N. Y., Schenectady—Bd. Contr. & Supply, City Hall, resurfacing streets, sewers.

Bids Asked October 3

Flordia—State Rd. Dpt., Tallahassee, bituminous resurfacing 2.88 mi. Biscayne Blvd. in Miami between S.E. 2 St., Rd. 4, SP 8703-105, Cade Co. $105,000. Plans deposit $5. H. P. Coloney, hy. engr.

Massachusetts—Commonwealth of Mass., 20 Somerset St., Boston, sheet asphalt paving exten. Memorial Dr. from Ash St. to Fresh Pond Parkway, Charles River Reservation, in Cambridge. $500,000. Plans deposit $5.

Vermont—State Hy. Dpt., Montpelier, crushed gravel, mixed in place surface course with refined tar 5.88 mi. Route 22A, Bridgeport and Addison. $200,000. Plans deposit $10.

Bids Asked October 7

Calif., San Mateo—City, City Hall, grading, surfacing, drainage, etc. San Mateo Knolls and Laurelwood subdivisions, Spec. 48-20; Sunnybrae 3 subdivision, Spec. 46-10. Plans deposit $10 each. A. B. Sullivan, city engr.

Bids Asked October 9

California—State Div. Hys., Sacramento, grading, bituminous surfacing 0.1 mi. west side of Yolo By-Pass 5 mi. east of Woodland, Yolo Co.; 0.4 mi. storm drain between San Miguel Ave. and Park Way, Castro Valley, Alameda Co.; pile and heavy stone riprap bank protection, Humboldt Co. G. T. McCoy, hy. engr.

Bids Asked October 10

New Jersey—S. Miller, Jr., comr., State Hy. Dpt., Trenton, grading 1.518 mi. Rte. 100 Sects. 1A and 2A from Gordon Ave. to Rte. 4, Woodbridge Twp., Middlesex Co. Plans deposit $10; adv. ENR 9/26.

Bids Asked October 16

California—State Div. Hys., Sacramento, grading, surfacing 2.9 mi. between ¼ mi. east of Las Varas Creek and ¼ mi. east of El Capitan Creek, Santa Barbara Co.; 4.6 mi. road between Red Mountain Creek and Pieroy, Mendocino Co. G. T. McCoy, hy. engr.

Bids Asked October 18

★**Pennsylvania**—State Hy. Dpt., Harrisburg, grading, drainage, aggregate base course, bituminous surfacing 37,635 ft., rein.-con. bridge, substructure for concrete, steel viaduct, substructure for I beam bridge, cement rubble masonry structure, grading 907 lin. ft. railroad bed, Rte. 55, Sect. 5A. Rte. 46, Sect. 3: grading, drainage, etc. 930 lin. ft. railroad bed, rein.-con. abutment with wings for viaduct, repairing concrete arch, Rte. 55, Sect. 5B, Rte. 33, Sect. 2B; grading, drainage, 1,028 lin. ft., railroad bed, rein.-con. pavement, grading, 2 rein.-con. bridges, extens., etc., Rte. 55, Sect. 5C, Rte. 33, Sect. 2C, T.R. U.S. 22 and 26 from point near Mill Creek Borough through Huntingdon to a point near Porter-Smithfield Twp. line. Over $1,000,000. T. C. Frame, ch. engr.

Tex., Houston—Home Owned Properties, United Gas Bldg., site grading and bldg., paving new streets. $50,000. Howe & Wise, Stuart Bldg., engrs.

LOW BIDDERS

California—State Div. Hys., Sacramento, rejected bids Sept. 11, imprv. 5.1 mi. Kern Co. L.B. **$195,874.** CD 8/16—ENR 8/22.

★**California**—State Div. Hys., Sacramento, Sept. 18, imprv 5.1 mi. San Mateo Co., from Macco Constr. Co. and Morrison-Knudsen, 111 Sutter St., San Francisco. **$2,993,138**; 8 mi. Humboldt Co., from Mercer Fraser Co., 2 and Commercial Sts., Eureka, **$185,557.** CD 8/26—ENR 8/29.

Connecticut—State Hy. Dpt., Hartford, Sept. 9, imprv. 20,247 ft. Botsford, High Bridge and Hopewell Rds., and concrete slab bridge, Newtown, and 2,790 ft. Saw Mill Rd. and concrete bridge over Mill Pond, New Fairfield, from Osborne-Barnes Co., 20 West St., Danbury, **$91,416** and **$40,807** respectively***21,071 ft. Boyer, Bradway, Gulf and McClellan Sts., Stafford, from Rome Constr. Co., Holden, Mass. **$92,532.** CD 8/30—ENR 9/5.

Illinois—State Div. Hys., Springfield, Sept. 13, imprv. FAS Rte. 753, Sect. 5G, Calhoun Co., from Madison Constr. Co., R. Schwartz St., Edwardsville, **$327,752*****SBI Rtes. 23.118, Sect. 5Z-W & 99, LaSalle Co., from A. J. Shanks Constr. Co., 1181/4 E. Walnut St., Watseka, **$165,906*****FA Rte. 5, Sect. 12R-2, Livingston Co., and SBI Rte. 88 Sect. 101W, Whiteside Co., from G. Welch, Sherman Hotel, Chicago, **$68,594** and **$51,406** respectively***SBI Rte. 53, Sect. 537S, Cook Co., from McCoy & Hasse, Hamond, Ind., **$203,441** ***FAS Rte. 717, Sect. 101A, Fayette Co., from McElroy & Gount Constr. Co., 901 E. Grand Ave., Decatur, **$67,747*****SBI Rte. 53, Sect. 573SB, Cook Co. from T. McQueen Co., 1313 Circle Ave., Forest Park, **$114,403.** Received no bids Sept. 13, SBI Rte. 14, Sect. 4B-Y, Franklin Co.; SBI Rte. 2, Sect. 50B & 51B, Macon Co.; SI Rte. 142, Sect. 110-I, Jefferson Co. CD 8/6.

Iowa—State Hy. Comn., Ames, Sept. 17, imprv. 5.625 mi. Clayton and Dubuque Counties and 3.433 mi. Dubuque and Jackson Counties, from E. M. Duesenberg Inc., Clear Lake, **$53,927** and **$87,185** respectively; 5.146 mi. and 6.128 mi. Plymouth Co., from Clark Bros. Constr. Co., Hinton, **$46,125** and **$39,904** respectively. CD 9/11.

Massachusetts — State-County-Town, Chap. 90, 100 Nashua St., Boston, Sept. 17, imprv. hy., Framingham, from Coleman Bros. Corp., 40 Central St., Boston. **$87,514.** Est. $88,191. CD 9/10—ENR 9/12.

Mass., Boston—City, City Hall Annex, Sept. 17, bituminous concrete paving West Cedar St., Ward 5, from Chestnut to Cambridge Sts. and Pinckney St. Ward 5 from Joy St. to Embankment Rd., from John Deveney Co., 17 St. Anne St., Jamaica Plain. **$40,465.** Est. over $40,000. CD 9/13.

Maine—State Hy. Dpt., Augusta, Sept. 11, imprv. 0.644 mi. road, Bath, from W. H. Hinman, Inc., North Anson. **$246,205.** CD 9/5.

Michigan—State Hy. Dpt., Lansing, Sept. 12, imprv. 5.61 mi. Berrien Co., from J. Yerington, Territorial Rd., RFD 2, Benton Harbor. **$147,957.** CD 9/5.

Minnesota—State Hy. Dpt., St. Paul, Sept. 6, bituminous wearing surface, 1 mi. in Morris S.P. 7501-07 (TH 9-10) and S.P. 7502-04 (TH 9-10) F 63 (5), from Megarry Bros., St. Cloud. **$46,764.**

Minn., Warren—Marshall Co., L. G. Johnson, aud., rejected bids Aug. 27, imprv. 6.5 mi. between Alma Creamery and 1.5 mi. east of Middle River State Park, SP 45-509-02 (SAR 4), Minn. Proj. S 667 (2), L.B. **$39,426**; 5.6 mi. between Hy. 32 SP 45-513-02 (SARA7), Minn. Proj. S 294 (1), L.B. **$35,968.** CD 8/7—ENR 8/15.

STREETS AND ROADS (Low Bidders, Cont'd.)

Miss., Meridian—City, c/o Mayor & Bd. Comrs., cancelled bids to have been opened Sept. 17, grading, curbing, paving, various streets. **$450,000.** Will readvertise. CD 8/27—ENR 8/29.

★**New York**—H. A. Cohen, Div. Bureau Contrs. & Accounts, Albany, Zone 1, Sept. 18, imprv. 3.63 mi. Ulster Co., from Grandview Co., 6 Grandview Ave., Mt. Vernon, **$777,976,** est. $785,000***1.35 mi. Nassau and Suffolk Counties, from Andrew Weston Co., Inc., 158 Irving Pl., Woodmere, **$715,089,** est. $790,000 ***9.26 mi. Greene Co., from Serafini Constr. Co., Inc., Conklin Rd., Binghamton, **$1,206,527,** est. $1,208,000***3.76 mi. Erie Co., from Depew Paving Co., Inc., Depew, **$760,022,** est. $762,000 Received no bids, Sept. 18, imprv. SH 46-9, and R. C. 46-38, Jefferson Co.; BRP. 46-5, Bronx Co.; NSP. 46-4, Nassau Co. CD 9/5—ENR 9/12.

N. C., Louisburg—Town, C. K. Stockard, clk., Sept. 12, street imprvs., from Jenkins Bros. Constr. Co., 10 Horne St., Raleigh, **$74,220.** CD 8/26—ENR 8/29, under Sewers, etc.

Ohio—State Hy. Dpt., Columbus, rejected bids Sept. 10, 0.694 mi. Putnam Co., L.B. **$21,348,** est. $20,350; 0.155 mi. Scioto Co., **$41,-941,** est. $32,900. Cancelled bids to have been opened Sept. 10, imprv. 0.908 mi. Licking Co., est **$18,450;** 0.839 mi. Williams Co., **$19,900.** CD 8/29—ENR 9/6.

†Oregon—Pub. Roads Admin., Bedell Bldg., Portland, rejected bids Aug. 27, imprv. 3.127 mi., Multnomah Co., L. B. **$903,281.** CD 7/3—ENR 7/11.

Oregon—State Hy. Comn., Salem, rejected bids Aug. 6, imprv. 5.54 mi., Douglass and Josephine Counties. L. B. **$877,031.** CD 8/14—ENR 8/22.

Ore., North Bend — Weyerhaeuser Timber Co., North Bend, rejected bids, Sept. 1, 10 mi. logging road up Millicoma river from Allegeny, with 290 ft. tunnel and five 80 to 100 ft. log bridges with concrete and piling abutments. L. B. **$250,000.** Will readvertise in January. CD 8/26—ENR 8/29.

Pennsylvania—State Hy. Dpt., Harrisburg, rejected bids, Aug. 16, imprv. 9,921 ft. Armstrong Co. L. B. **$441,517.** Will readvertise. CD 8/20—ENR 8/22, under LB.

South Carolina—State Hy. Dpt., J. S. Williamson, dir., Columbia, Sept. 17, imprv. Abbeville Co., from E. H. Hines Constr. Co., Inc., Greenwood, **$93,534***Horry Co., from Robert Lee, Inc., Manning, **$292,083***Richland Co., from J. F. Cleckley & Co., Orangeburg, **$61,849** ***York Co., from Sloan Constr. Co., Inc., Greenville, **$62,518.** CD 9/6.

South Dakota—State Hy. Comn., Pierre, rejected bids Sept. 10, imprv. 0.026 mi. hy. Perkins Co., L.B. **$1,217;** 0.151 mi. Harding Co., L.B. **$3,746;** 0.094 mi. Meade Co., L.B. **$1,890.** CD 9/3.

South Dakota—State Hy. Comn., Pierre, Sept. 10, impr. 5.012 mi. Turner Co., from Summit Constr. Co., Rapid City, **$57,392***** 11.494 mi. Lyman Co., from Dave Gustafson & Co., L. Sioux Falls, **$92,551*****7.93 mi. Moody Co., from C. H. Lien Constr. Co., Sioux Falls, **$90,093.** CD 9/3.

Texas—State Hy. Comn., Austin, rejected bids Aug. 28, imprv. 12.223 mi. Bastrop and Lee Counties, L.B. **$233,610;** 8.141 mi. Matagorda Co., L.B. **$108,621;** 7.146 mi. Colorado Co., L.B. **$216,219;** 10 mi. Kimble Co., L.B. **$70,700.** CD 9/3—ENR 9/5.

CONTRACTS AWARDED

California—State Div. Hys., Sacramento, imprv. 5.7 mi. road, 5 bridges, Solano Co., to Frederickson Bros., 1259 65 St., Emeryville. **$512,574.** Bids 9/4. CD 9/9—ENR 9/12, under L. B.

Colorado—State Hy. Dpt., Denver, imprv. 8 mi. interstate hy. between Denver, Colo. and Cheyenne, Wyo., from U. S. Hy. 34 north on State Hy. 85, and 5.48 mi. S. H. 1, between San Luis and Sedalia, Costilla Co., to Peter Kiewit & Sons, 1024 Omaha Natl. Bank Bldg., Omaha, Neb., **$333,550** est. $341,220 and **$42,-330** est. $40,412 respectively***10.6 mi. U. S. 40, FAP 150D(3) between Massadona and Elk Springs, Moffat Co., to Colorado Constructors, Inc., 4080 Galapago St., Denver, **$60,893** est. $47,217***3.692 mi. Hy. 135, between Jack's Cabin and Crested Butte, Gunnison Co., to Gerard Knutson, Estes Park, **$144,164** est. $102,507***0.549 mi. S. H. 1, between Littleton and Sedalia, Douglas Co., to Miner Constr. Co. & M. R. Latimer, 660 Dexter St., Denver, **$63,655** est. $64,687. Grand total $644,592.

Idaho—State Hy. Dpt., Boise, imprv. 5.55 mi. Cassia Co., to Hoops Constr. Co., Twin Falls, **$95,966,** est. $103,798***4.2 mi. Bear Lake Co., to Allen C. Hunsaker, Brigham City, Utah, **$48,486.** Est. $57,730. CD 9/5—ENR 9/12.

Fla., Daytona Beach—City, c/o City Mgr., repairing, imprv. streets, to Frank Constr. Co., Daytona Beach. Est. **$75,000.**

Ill., Mt. Vernon—City, City Hall, widening Broadway from 14 St. east to 7 St. and north on 7 to Main Sts., 10 St. from Main St. south to L.&N. R.R., to Jefferson Asphalt Co., Mt. Vernon. **$50,725.** A. Hurst, Rosche Co. Hy. Bldg., Hillsboro, engr.

Indiana—State Hy. Comn., J. H. Lauer, chn., Indianapolis, imprv. 1.728 mi. Wayne Co., to D. R. Smalley & Sons, Defiance, O., **$479,178.** Est. $520,389. Bids 7/23, awarded 9/10. CD 7/26—ENR 8/1, under L.B.

Kan., Burton—City, **street imprvs.**, to Hall & Swanson, Wichita. **$67,659.** Bids 9/4. CD 8/22—ENR 8/29.

Mich., Dearborn—City, 35,000 sq. yd. concrete and asphalt paving, concrete curb, to Thomas E. Currie, 2531 Conner Ave., Detroit, **$154,216.**

Minnesota—State Hy. Dpt., St. Paul, grading 12.6 mi. between south State line and Brownsville, SP 2802-08 (TH 26-198), F 595 (3), to A. Guthrie & Co., Inc., 424 Endicott Bldg., St. Paul, **$266,229.** Bids 8/23. CD 8/8—ENR 8/15.

Neb., Sidney—City, G. H. Tobon, clk., paving, to Inland Const. Co., 387 Leavenworth St., Omaha. **$164,260.** E. Y. Grupe, 1908 1st Ave., Scottsbluff, engr. Bids 8/29.

★**New York**—Bureau Contr. & Accounts, Albany, imprv. 0.26 mi. road, Bronx Co., to Slattery Constr. Co., Inc., 72-02 51 Rd., Woodside, **$814,001,** 1.18 mi. Greene Co., to Green Island Constr. Co. & Victor Arzani Contr. Co., Green Island, **$688,497.** Bids 8/7. CD 8/9—ENR 8/15, under L. B.

Ohio—State Hy. Dpt., Columbus, imprv. 0.181 mi. hy. incl. bridge, Logan Co., to Baker & Hickey Constr. Co., 85 E. Gay St., Columbus, Zone 15, **$67,421,** est. $68,880***imprv. 2.03 mi. Stark Co., to Oyler Bros., 1324 2 St., S.W., Canton, Zone 2, **$44,398,** est. $44,350*** 11.147 mi. Huron and Medina Counties and 3.85 mi. Sandusky Co., to Ohio Road Improvement Co., 30 E. Broad St., Columbus, **$50,838** and **$92,074** respectively, est. $61,740 and $97,-030 respectively***6.377 mi. Portage Co., to McCourt Constr. Co., 720 Home Ave., Akron, **$171,840,** est. $172,860***2.063 mi. Logan Co., to Fenton Constr. Co., Ashland,*$41,792,** est. $49,470***5.172 mi. Licking and Muskingum Counties, to Shelly & Sands, Inc., Thornville, **$75,600,** est. $76,670***3.256 mi. Lawrence Co., to Middle-States Bituminous Corp., P.O. Box 1070, Ashland, **$66,474,** est. $66,500***2.71 mi. Cuyahoga Co., to the Horvitz Co., 913 Midland Bldg., Cleveland, **$88,209,** est. $101,430*** 5.834 mi. Columbiana Co., to Kelley & Meyer Co., 707 Dollar Bank Bldg., Youngstown, **$57,493.** Grand total $756,139. Bids 9/10. CD 9/29—ENR 9/5.

O., Cleveland—City, J. C. Wenrich, city engr., City Hall, paving, relaying watermains, imprv. E. 40 St. from Euclid to Chester Aves., to Douglas Const. Co., Engineers Bldg., **$43,-892.** Awarded 9/11.

O., East Cleveland and Cleveland Heights—Bd. Comrs. Cuyahoga Co., F. J. Husak, clk., New Court House, Cleveland, asphaltic concrete surfacing Taylor Rd. between Brunswick and Mayfield Rds., to Horvitz Co., Midland Bldg., Cleveland. **$49,310.** Est. $50,300. Awarded 9/17.

O., Lisbon—Comrs. Columbiana Co., imprv. 5.8 mi. road in Madison and St. Clair Twps., to Kelley-Meyer Co., Dollar Bank Bldg., Youngstown. **$57,492.** CD 8/27—ENR 9/19.

South Dakota—State Hy. Comn., Pierre, imprv. 23.105 mi. Brown Co., to G. H. Lindekugel & Sons Constr. Co., Spencer, **$45,007;** 4.805 mi. Pennington Co., to Northwestern Engineering Co., Rapid City, **$64,808.** Bids 9/10, awarded 9/11. CD 9/3.

Texas—State Hy. Comn., J. S. Redditt, chn. Austin, grading, draining, flexible base and single asphalt surfacing 5.256 mi. Hy. FM 170-S 626 (1), Presidio Co., to C. Hunter Strain, San Angelo. **$31,657.** Awarded 9/12.

Tex., Beaumont—City, concrete street paving, force account. **$42,000.** G. Schaumburg, City Hall, engr.

Tex., Corpus Christi—City, R. B. Thomas, mgr., asphalt repaving and widening Lippan St., to Brown & Root, Inc., 1501 Musset St. **$133,574.** Fagan Mason, City Hall engr.

British Columbia—British Columbia Govt., Parliament Bldg., Victoria, 2.82 mi. Longheed Hy. between Lonsdale Ave. and Blue Mountain Rd., to General Const. Co. Ltd., Granville Island, Vancouver, **$107,050.** CD 8/29.

Quebec—Dpt. Mines, Quebec City, 10½ mi. gravel road from Macemic Hy. into MacDonald Mine, Noranda, to Dan Lamothe, 210 9 St., Noranda. About **$175,000.**

Que., Baie Shawinigan—Municipality, W. Chretien, clk., asphalt paving, day labor. **$40,000.**

Que., Cap de la Madeleine—City, F. Beaumier, clk., paving various streets, to Regional Asphalt Ltd., 1497 Craig St., Three Rivers. About **$70,000.** CD 6/6—ENR 6/27.

EARTHWORK, WATERWAYS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked October 7

Calif., San Mateo—City, City Hall, reconstructing levee from San Mateo Creek to Coyote Point, Spec. 46-18. Plans deposit $10. A. B. Sullivan, city engr.

†Montana — Bureau Reclamation, Billings, excav. tunnels, raises, shafts, drilling pilot and feeder holes for investigation of Yellowtail Damsite, Hardin Unit, Missouri Basin Proj., Big Horn River, Big Horn Co., Spec. 1484; adv. ENR 9/26.

Bids Asked October 9

†Idaho, Colorado — Bureau Reclamation, Denver, Colo., high pressure gates and hoists for outlet works at Cascade Dam, Boise Proj., Idaho, and at Horseteeth Dam, Colorado Big Thompson Proj., Colorado, Spec. 1487.

B. C., Nanaimo—Dpt. P. Wks., Ottawa, Ont. harbor imprvs. dredging, constructing fishermen's floats, Nanaimo Commercial Inlet. About $60,000. Plans deposit $20.

B. C., Richmond — Secy. Dpt. P. Wks., Ottawa, Ont., protection works on Lulu and Sea Islands, Fraser River, addnl. protection work on Lulu Island, Fraser River. About $75,000. Plans deposit $20 each. R. Blais, c/o owner, engr.

Bids Asked October 10

†N. Y., New York—U. S. Eng., 120 Wall St., Zone 5, dredging, 11,900 cu. yd. East River-Carlears Reef.

Bids Asked October 15

†Idaho—Bureau Reclamation, Boise, preparation concrete aggregates, Keener Deposit, Payette Div., Boise Proj., Spec. 1483.

La., Krotz Springs—New Orleans, Texas & Mexico Ry., C. S. Kirkpatrick, ch. engr., 204 Union Station, Houston, Tex., sinking fascine mattresses 170x400 ft. in Atchafalaya River six 15 in. square, 15 ft. long Bignell piles, etc.

Bids Asked October 21

†California — Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Coram, one 16 ton hoist elevator, one 96 in. outlet gate transfer car, installation equip., servicing equip for river outlet gates at Shasta Dam, Kennett Div., Central Valley Proj., Spec. 1488.

Bids Asked October 22

†Washington—Bureau Reclamation, Dpt. Interior, 7½ N.2 St., Yakima, earthwork, pipelines, structures, lateral systems, Pump. Areas 16 and 17, Roza Div., Yakima Project, approx. 10 mi. northeast of Prosser, Spec. 1486.

LOW BIDDERS

†California—U. S. Eng., Wright Bldg., Sacramento, Sept. 18, levee setbacks on east levee, Sacramento River between Mile 92.6 and Mile 111.5, Spec. 1252, from M. A. Jenkins, 3566 Broadway, Sacramento. **$74,295.** CD 9/5.

Ill., East St. Louis—East Side Levee & Sanitary Dist., 628A Missouri Ave., Sept. 10, Landsdowne storm water channel, drainage, Landsdowne and Washington Park from junction with Cahokia storm water channel to lower end of Spring Lake, from H. H. Hall Constr. Co., 211 S. 15 St. **$147,245.** CD 8/7—ENR 8/15.

†Nevada—Farm Security Admin., Federal Bldg., Las Vegas, rejected bids Sept. 9, relining 40,550 ft. irrigation canals, 72 concrete turnouts, 11 concrete stilling basins. L. B. **$172,352.** CD 9/17—ENR 9/19.

†New Jersey—U. S. Eng., 120 Wall St., New York 5, Sept. 17, dredging 37,500 cu. yd. Shrewsbury River serial 30-075-47-21, from Arundel Corp., Pier 3, foot Fulton St., Brooklyn, **$34,988.** Est. $21,375. CD 9/12.

N. J., Asbury Park—City, J. O. Armstrong mgr., Sept. 3, First Ave. Jetty, from Jesse A. Howland & Sons, Inc., 50 Church St. **$83,598.** CD 8/26—ENR 8/29.

†New Mexico—Bureau Reclamation, Tecumcari, Aug. 29, earthwork and structures at Tecumcari Proj., from Clyde W. Wood, Inc., 816 W. 5 St., Los Angeles, Calif. **$278,330.** Est. $200,000. CD 8/23—ENR 8/29.

†South Carolina—U. S. Eng., Custom House, Charleston, Sept. 4, maintenance dredging in waterway from Charleston to Beaufort, Spec. 38-081-47-7, from Norfolk Dredging Co., Campostella Wharf, Norfolk, Va. **$48,773.** CD 8/26—ENR 8/29.

†Washington—Bureau Reclamation, Customhouse, Denver, 2, Colo., Aug. 29, two 100 ton and one 60 ton traveling cranes for Grand Coulee Dam pump. plant, Columbia Basin Proj., Spec. 1417, from Whiting Corp., Harvey, Ill., **$140,000** and **$71,000** respectively, equipment for unloading, storing and batching bulk cement for use in irrigation sys. structures, from Noble Co., 8067 7 St., Oakland, Calif., **$60,762.** CD 8/12.

CONTRACTS AWARDED

†South Carolina—U. S. Eng., Custom House, Charleston, maintenance dredging, 35 ft. Cooper River and Town Creek channels, Spec 38-081-47-2, to The Arundel Corp., Elkton, Wilmington, Del. **$546,810.** CD 8/9—ENR 8/15, under LB.

★**†Tennessee**—Tennessee Valley Auth., Knoxville, completing Watauga and South Holston Dams, own forces, **$17,666,000.**

Tex., Galveston—Galveston Co., placing granite rip-rap at base of seawall, to W. A. Kelso Bldg. Material Co., 2215½ Machanic St. **$41,704.**

AIRPORTS & AIRBASES

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

Que., Matane—AIRPORT—Town, J. E. Dionne, secy. and Dpt. Transport, Ottawa, Ont., development of airport, clearing, stumping, grubbing and grading. About $75,000. Plans deposit $10.

Bids Asked

Que., Dorval — HANGARS — Trans-Canada Air Lines, 360 McGill St., Montreal, 3 story, 50x250 ft., concrete, steel, brick, annex between Hangars 1 and 2, and addn. over Hangar 1. About $100,000. J. Schofield, c/o owner, archt.

LOW BIDDERS

Calif., San Francisco — AIRPORT DRAINAGE—Pub. Utilities Comn., City Hall, Sept. 17, field drainage sys., San Francisco Municipal Airport, Spec. 86, from M. J. Lynch, 2251 Revere Ave. **$41,328.** CD 8/30—ENR 9/5.

Mass., East Boston — AIRPORT—Commonwealth of Mass., 100 Nashua St., Boston, Sept. 10, grading, furnishing, placing gravel borrow, etc. Logan Airport, from B. Perini & Sons, Inc., 73 Montwait Ave., Framingham. **$320,730.** C.A.A. Airport Sec., Dpt. Commerce, 385 Madison Ave., New York, engr. CD 9/6.

CONTRACTS AWARDED

Ill., Shelbyville — AIRPORT DEVELOPMENT—City, c/o mayor, State Aeronautic Comn., Illinois Casualty Bldg., 5 and Capitol Sts., Springfield, airport development, runways, administration bldg., hangars, etc., to Sager Constr. Co., 5507 Pershing Ave., St. Louis 12, Mo. **$53,393.** N. Bird, c/o State Aeronautic Comn., Springfield, engr.

W. Va., Wheeling—HANGAR—Valley Aviation, Inc., Wheeling, 1 story, 100x180 ft., steel hangar, Ohio County Airport, to E. Silby, 801 Elm St., Martins Ferry. Est. **$60,000.**

Alta., Lethbridge—AIRPORT—Dpt. Transport, Ottawa, Ont., exten. 3 hard-surfaced runways and concrete parking area at airport, to General Constr. Co. of Alberta, Ltd., Lethbridge, about **$132,000.** CD 8/29—ENR 9/5.

Ont., Windsor—AIRPORT—Dpt. Transport, Ottawa, grading, smoothing, rolling, drainage, hard-surfacing airport, to Storing Constr. Co., Ltd., Windsor, about **$120,000.** CD 5/25/43—ENR 5/27/43.

LATIN AMERICA

Mexico, Tampico—Mexican Govt., Scrita de la Marina, Mexico, shipyard, to Astilleros del Golfo, S. A., 16 de Septiembre, 10-103, Mexico, D. F. **$826,000.**

Venezuela—Federal Dpt. P. Wks., E. Mier y Teran, minister, Caracas, asphalt paving Caracas-El Junquito Rd., to Carlos Eduardo Brige, Caracas. **$100,000.**

PUBLIC BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

N. Y., New Hyde Park—Village Clerk, 1420 Jericho Turnpike, firehouse, $30,000. Plans deposit $20. T. Schaardt, 310 S. 11 St., archt.

Bids Asked October 1

Neb., Beatrice—Bd. Control, L. R. Eby, secy., State Capitol, Lincoln, employees bldg. at Beatrice State Home. J. O. Unthank, 1307 Sharp Bldg., Lincoln, archt.

Neb., Lincoln—Bd. Control, State Capitol, Lincoln, packing plant for State Penitentiary. Bruce Hazen, 305 Stuart Bldg., archt.

Pa., McKees Rocks—Ohio Valley General Hospital, McKees Rocks, Pittsburgh, 3 story, bsmnt., irregular sized hospital, Moon Run Rd., Kennedy Twp., near here. $500,000. P. C. Dowler, Century Bldg., Pittsburgh, archt.

Ont., Port Arthur—Wartime Housing Ltd., 159 Bay St., Toronto, 50 homes. About $250,000. CD 8/29—ENR 10/3.

Bids Asked October 2

N. Y., Syracuse—Bd. Contr. & Accounts, Albany, boiler room addn. at State College.

Bids Asked October 4

Mich., Van Dyke—Warren Twp. School Dist. 5, (1st unit) Macomb Park School, etc. Plans deposit $15. Lane, Davenport, Meyer, 806 Farwell Bldg., Detroit, archts.

Bids Asked October 8

†Colorado—Bureau Reclamation, Denver, hydraulic turbines, governors, generators for Estes and Marys Lake Power Plants, Colorado-Big Thompson Proj., Spec. 1466. Extended date. CD 8/6—ENR 8/15.

Bids Asked October 9

Tex., Alpine—SulRoss State Teachers College, Alpine, 3 story concrete, stone girls' dormitory addn. $225,000. Plans deposit $10. Harvey P. Smith, National Bank Commerce Bldg., San Antonio, archt. Frank Drought, Frost Bank Bldg., structural engr. G. R. Rhine, Alamo National Bank Bldg., mech. engr. CD 10/4/45—ENR 10/13/46.

Bids Asked October 14

Idaho, Boise—Independent School Dist., Boise, Lowell school addns., $130,000; Washington school $80,000; Whitney school, $270,000. Whitehouse & Price, Hutton Bldg., Spokane, Wash., archt. CD 5/24—ENR 5/30.

Bids Asked October 24

†Va., Portsmouth—Yards & Docks Annex, Navy Dpt., Arlington, repairing and painting water tower at U. S. Naval Hospital, Spec. 18046. Plans deposit $10.

LOW BIDDERS

★**Ill., Kankakee** — State Dpt. P. Welfare, State Capitol Bldg., Springfield, Aug. 27, general contract power plant, Kankakee State Hospital, from J. Moroff & Son, 1521 E. Court St., **$412,900***power piping, heating, ventilating, plumbing from Phillips, Getschow Co., 32 W. Hubbard St., Chicago, **$265,320***boiler and stoker, from Lasker Boiler & Eng. Corp., 3201 S. Wolcott St., Chicago, **$257,500***three 500 kva. turbo generators, from Elliott Co., Jeannette, Pa., **$117,570***electrical work, from Garden City Eng. Co., 100 N. LaSalle St., Chicago, **$72,617***insulation, from Asbestos & Magnesia Materials Co., 119 N. Peoria St., Chicago, **$65,847***chimney, from Continental Chimney Co., Inc., 127 Dearborn St., Chicago, **$39,875***power plant machinery, equip., from Gallaher & Speck, Inc., 546 W. Harrison St., Chicago, **$24,417***underground electrical distr. sys., and AC to DC conversion, from Garden City Eng. Co., 100 N. LaSalle St., Chicago, **$268,520** and **$193,446** respectively. CD 9/4.

★**Ill., Springfield**—State Div. Architecture & Engineering, Armory Bldg., Sept. 12, general work, Centennial Bldg. addn., from J. L. Simmons Co., Inc., and Kuhne-Simmons Constr. Assoc., 2146 N. Woodford St., Decatur, **$3,824,000***heating, air-conditioning, ventilating, plumbing, from Fowler Plumbing & Heating Co., 217 E. 2 St., Centralia, **$499,101*** electrical work, from Anderson Elec. Co., 425½ N. Vermilion St., Danville, **$377,000** *elevator equip., from Westinghouse Elec. Corp., Elevator Div., 506 N. Dearborn St., Chicago, **$166,366***insulation, from Standard Asbestos Mfg. Co., 820 W. Lake St., Chicago, **$70,926.** CD 9/4.

Ill., Springfield — Springfield City Water Light & Power Dpt., City Hall, Sept. 10, switch gear at Lake Side Power Plant, 5 mi. southeast of here, from Westinghouse Electric Corp., Illinois Bldg. **$140,587.**

La., Pineville — State Dpt. Finance, 201 Capitol Annex Bldg., Baton Rouge, rejected bids Sept. 10, nurses home, doctors home, warehouse, arcade, Huey P. Long Memorial Hospital. L. B. **$342,589.** CD 9/16—ENR 9/19, under LB.

Mass., Belchertown — Commonwealth of Mass., Mental Health, 100 Nashua St., Boston, rejected bids, Aug. 30, infirmary incl. tunnel. L. B. **$835,000.** CD 9/6—ENR 9/12, under LB.

†Mass., Waltham—U. S. Eng., Park Square Bldg., Boston, rejected bids Aug. 23, warehouse alterations, No. 19-023-47-7. CD 8/17.

Minn., Aitkin—Village, Water & Light Bd., J. L. Spaulding, secy., rejected bids Sept. 6 1 story, 32x49 ft. power plant addn. L.B. **$62,500.** CD 8/21—ENR 8/29.

Minn., Deer River—State Dpt. Admin., 19 State Capitol, St. Paul, rejected bids Aug. 16, wood processing plant, incl. fibre plant, drying kilns, sawmill planer and cut-up plant. L.B. **$185,000.** Will readvertise. CD 8/29—ENR 9/5, under LB.

Miss., Newton—City, c/o Mayor & Bd. Alderman, Sept. 12, 1 story, 150x280 ft. structural tile garment plant, air conditioned, from O. & W. Constr. Co., Falls Bldg., Memphis, Tenn. **$157,000.** Est. $150,000. C. Isaacs, Bank and Grundy Sts., Baltimore, Md., will operate. CD 8/28—ENR 9/5.

Mo., Sikeston — School Dist., c/o Supt. Schools, rejected bids Sept. 12, 1 story, 99x203 ft., brick, concrete block Lincoln School Bailey School addn., 2 wings, 2 story, 25x75 ft., brick, bar joists, etc. L. B. **$214,528.** CD 8/26—ENR 8/29.

Tex., Kingsville—Texas College of Arts & Industries, Kingsville, indefinitely postponed bids to have been opened Sept. 26, dormitories and women's dining hall. **$705,000.** Phelps, Dewees & Simmons, 1515 Majestic Bldg., San Antonio, archts., Frank T. Drought, Frost Bank Bldg., San Antonio, engr. CD 7/23—ENR 8/1.

N. Y., Long Island City—Dpt. P. Wks., Municipal Bldg., New York, Zone 7, Sept. 13, general contract repair shop, 34 St. and Hunters Point Ave., from Gerace & Castagna, 11 W. 42 St., New York, Zone 18, **$554,319*** plumbing, from Joseph Egan Co., 3013 Grand Concourse, New York, Zone 58, **$89,258*** sprinkler, from M. Farbman, 349 W. 59 St., New York, Zone 19, **$48,495*** heating, from Dierks Heating Co., 43-32 32 St., Long Island City, **$185,000*** electrical work, from Broadway Maintenance Co., 47-47 35 St., Long Island City. **$177,167.** CD 8/22.

N. Y., Manhasset—Bd. Educ., Union Free School Dist. 6, rejected bids Aug. 26, bus garage, $45,000. Will readvertise. CD 8/12—ENR 8/15.

Tenn., Bolivar—State Institutions of Tennessee, W. O. Baird, comr., State Office Bldg., Nashville, Sept. 10, negro dormitory and utility bldg., from S. E. Glem, 166 Monroe St., Memphis, **$537,300** and **$132,732** respectively. CD 8/26—ENR 8/29.

B. C., Vancouver—Province of British Columbia, Parliament Bldg., Victoria, Sept. 16, wing for University of B. C., from Marwell Const. Co. Ltd., 410 Seymour St. **$578,044.** Sharp & Thompson, 626 W. Pender St., archt. CD 9/12.

CONTRACTS AWARDED

Ala., Auburn—Alabama Polytechnic Institute, dormitory, Contr. 2, to Daniel Constr. Co., 824 7 Ave. S., Birmingham Approx. **$800,000.** H. L. Holman, Ozark, archts. CD 8/29—ENR 9/19.

Ill., Mt. Prospect—School Dist. 57, general contract 2 story, 111x126 ft., brick, concrete steel school addn., to Axel Johnson, 4041 N. Kilbourn Ave., Chicago***plumbing, to W. W. Watson Co., 758 N. Ogden St., Chicago*** heating, to Northwestern Plumbing & Heating Co., 1905 Greenleaf St., Evanston*** electrical work, W. Frye, 598 N. Western Ave., Chicago. Est. **$225,000.**

Ind., Decatur—Bd. P. Wks., power plant imprvs., steam turbine generating unit, Contr. 1, to General Electric Co., River Rd., Schenectady, **$271,063;** steam condensor, auxiliary equip., Contr. 2, to Westinghouse Elec. Corp., Union Bank Bldg., Pittsburgh, Pa., **$68,615.** Bids 9/12, awarded 9/14. CD 8/30—ENR 9/5.

Mich., Howell—State Sanitarium, Howell, brick, steel, concrete power plant for State Sanitarium, to Lansing Heating & Ventilating Co., 1213 Center St., Lansing. **$277,000.** CD 12/19—ENR 2/7.

Pa., Phila.—Bd. Educ., 21 and Winter Sts., 2 story, face brick, tile school, Harrocks and Tyson Sts., to Edward Fay & Son, 244 N. 55 St. **$937,000.** Awarded 9/5. CD 8/20—ENR 8/22, under LB.

Tex., Dallas—City, 4 units of Municipal Market Bldg., to J. J. Fritch, 7000 Harry Hines Blvd. **$453,338.** Bids 9/11.

†Washington—Bureau Reclamation, Dpt. Interior, Denver, Colo., steel warehouse, having inside measurement 105x300 ft., about 25 ft. high, at Grand Coulee Dam, to American Bridge Co., Frick Bldg., Pittsburgh, Pa. Est. **$82,558.** Bids 8/26. CD 7/23—ENR 8/1.

W. Va., Bluefield — City, c/o Bd. Directors, Bluefield, 800 car municipal parking bldg., to C. L. Lewis, Lynchburg, Va., **$397,500.** CD 12/10/45—ENR 3/7.

Ont., Camp Borden—Dpt. Reconst. & Supply, Ottawa, F. F. Waddell, secy., quarters for married personnel and other ranks, incl. 2-8 car garages, one 16 car and one 6 car garages, to W. C. Bremen Contr. Co., Ltd., 400 Gage Ave. W., Hamilton, about **$950,000.** Bids 8/28.

Ont., Sault Ste. Marie—City, G. H. Tolley, clk., 270x170x70 ft., concrete, steel arena section of community center, to McLarty Bros. & Brodie, Gouin St. **$232,333.** S. K. Sinclair, 284 Dundas St., London, archt. G. G. Reid, 264 Avenue Rd., Toronto, engr.

Ont., Windsor—Windsor P. Utilities Comn., G. W. Fuller, chn., water division bldg., alterations, addns., Howard and Tecumseh Aves., to Allan Const. Co. Ltd., 44 Wyandotte St. E. About **$106,000.** D. J. Cameron, Bartlett Bldg., archt.

COMMERCIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked September 30

N. Y., Flushing—Parsons Realty Co., 35-06 Parsons Blvd., hospital addns. $205,000. Extended Date. B. Braunstein, 163-18 Jamaica Ave., Jamaica, archt. CD 5/10—ENR 5/16.

Bids Asked October 1

N. Y., Poughkeepsie—Vassar Brothers Hospital, Lincoln Ave., hospital addn. York & Sawyer, 101 Park Ave., New York, Zone 17, archts.

Tex., Houston—Archer Development Co., Bunker Hill Rd., 100 frame type dwellings, waterlines, sewers. **$725,000.**

Bids Asked October 7

Va., Alexandria—Westminister Presbyterian Church, 2701 Ridge Rd. Dr., church. Over $205,000. Wenner & Fink, 1701 Arch St., archts.

Bids Asked October 14

N. Y., Rego Park—Jewish Center of Rego Park, Inc., 53-51 Wethevale St., temple, school and recreation center. $300,000. F. Grad & Sons, 48 Commerce St., Newark, N. J., archts. CD 9/18.

Bids Asked

Ill., Chicago—Bethel African Methodist Church, 4448 S. Michigan Ave., substitute for 2 story, 150x200 ft., brick, concrete, steel, stone church, school, auditorium. E. J. Belli, 8 S. Dearborn St., archt. CD 7/26—ENR 8/1.

COMMERCIAL BUILDINGS (Cont'd.)

LOW BIDDERS

Mo., St. Louis—DePaul Hospital, Sisters of Charity, 2415 N. Kingshighway Blvd., Zone 18, project indefinitely postponed, 9 story, bsmnt., 44x248 ft., 3 story, 50x59 ft. rear wing, 3 story center entrance, Highland Ave. west of Kingshighway Blvd. CD 5/17—ENR 5/30.

Alta., Edmonton—Housing Enterprises Ltd., 395 W. Fleet St., Toronto, project abandoned 150 suite apartment. **$600,000.** CD 4/15—ENR 4/25.

CONTRACTS AWARDED

Calif., Burlingame—California Constructors, Inc., 1243 Broadway, 60 residences, Burlingame Manor 1, own forces. **$600,000.**

Calif., Los Angeles—Rayden Building Co., 453 S. Spring St., 40 frame, stucco dwellings, Polk and adjacent streets in San Fernando Valley, to Vinnell Co., Building Div., 108 W. 6 St. Approx. **$250,000.**

Calif., San Francisco—Rayden Bldg. Co., 453 S. Spring St., Los Angeles, 92 frame, stucco dwellings, Brand Blvd., to Vinnell Co., Building Div., 108 W. 6 St., Los Angeles. Approx. **$550,000.**

Calif., San Gabriel—Vinnell Co., Inc., 108 W. 6 St., Los Angeles, 48 frame, stucco single dwellings, Valley Blvd. and Del Mar Ave., own forces. **$275,000.**

Calif., San Rafael—Mrs. L. Morehouse, 1011 2 St., design and construction 100 residences, to North Bay Builders, 1424 4 St. **$800,000.**

Conn., Stratford—John Greer, Broadbridge Ave., 40 to 50 one story, 26x32 ft. frame homes. Owner builds. **$275,000.** Harry E. Koerner, 83 Fairfield Ave., Bridgeport, archt. CD 2/15—ENR 2/28.

Conn., Stratford—William R. McNeil, 3757 Main St., Stratford, 50 frame homes, Monroe St. Owner builds. **$450,000.**

Del., McDaniel Heights (P. O. Wilmington)—Facciola Constr. Co., 1308 W. St., Wilmington, residential development, separate contracts. **$250,000.**

Del., Wilmington—Leopold Pullella, 1900 W. 8 St., residential development, separate contracts. **$220,000.**

D. C., Wash.—Southwest Constr. Corp. 1244 Fifth St. N. E., sixty-four 2 story, cinder and block dwellings, 5425-5450 B St. S.E., 5500-5556 Bass Place S.E., 5700-5714 Southern Ave. S.E., own forces. **$256,000.** Erwin Gerber, 1180 Raymond Blvd., Newark, N. J., archt.

Fla., Sebring—W. V. Higgins, Sebring, 100 frame houses, Lakeview Pl., own forces. **$500,000.**

Ill., Chicago—Owner, c/o E. H. Mittelbusher, archt., 222 N. West Bank St., 8 groups, 2 story, 68 unit, 4 room, 24 unit, 5 room, Damen-Ridge Garden apartments, Damen, Ridge and Loyola Aves., to Ziskin Constr. Co., 4430 W. Roosevelt Ave. **$780,000.**

Mass., Hyde Park—Ernest Haskins, 294 Washington St., Boston, one hundred 2 story, frame 5 room single homes, Prospect St. section, own forces. **$850,000.**

Mass., Medway—Harry Johnson, Lovering St., homes in Lovering St. sect. Owner builds. **$300,000.**

Mass., Natick—Certified Homes, Inc., 19 Market St., Brighton, 45 frame, 5 room homes, Arlington Rd., own forces. **$400,000.**

Mass., Natick—George Fuller, 11 Beacon St., Boston, 50 frame homes, Oak St., own forces. **$400,000.**

Mass., New Bedford—New Bedford Five & Ten Savings Bank, 791 Purchase St., bank remodeling for banking institute, to Sullivan & Foster, Inc., 43 William St. Est. **$215,000.** Thomas M. James Co., 101 Newbury St., Boston, archt.

Mass., Wayland—John Simoni, 58 Spleen St., Natick, fifty 2 story frame homes. Owner builds. **$400,000.**

Mass., Westfield—Louis Aldrich, 25 Lindberg Blvd., 1 story, single frame homes, Squawfield Rd., own forces. **$400,000.**

N. J., Brick Twp. (P.O. Ocean Gate)—Thomas Associates, Inc., 84 Washington Ave., Hoboken, residential development, separate contracts. **$340,000.**

N. J., Camden—Emideo Federucci, Marlton Pike, Camden, residential development, separate contracts, **$220,000.**

N. J., Trenton—Corp., c/o F. A. Coleman, 1905 Pennington Ave., residential development, separate contracts. **$950,000.** Hankin & Stull, 17 N. Willow St., archts.

N. J., Trenton—Manufacturers Assoc. of N. J., 175 W. State St., office, to Mahony Troast Constr. Co., 657 Main Ave., Passaic, over **$205,000.** L. G. Adams & F. J. Woodbridge, 204 E. 39 St., New York, N. Y., archts. Voorhees, Walker, Foley & Smith, 101 Park Ave., New York, N. Y., engrs.

N. Y., New York—Memorial Hospital Corp., 444 E. 68 St., Zone 21, altering hospital, to Turner Constr. Co., 420 Lexington Ave., Zone 17. Est. **$339,000.** Skidmore, Owings & Merrill, 5 E. 57 St., Zone 22, archts.

★ **O., Cleveland**—Central Northfield Housing Corp., Roy Brown, pres., 1900 Euclid Ave., 500 two story, bsmnt., brick row houses, Warrensville Center, Harvard and Northfield Rds. and on other streets, incl. parks, playgrounds, shopping center, to Brown Constr. Co., 1900 Euclid Ave. Est. **$5,000,000.** Bonfield & Cumming, 1900 Euclid Ave., archts.

O., Lorain—National Tube Co., Lorain, 4 dormitory bldgs., adjacent to plant, to J. C. F. Shafer Co., Caxton Bldg., Cleveland. **$258,000.** CD 8/14—ENR 8/22.

Okla., Guthrie—Benedictine Sisters, Guthrie, hospital for Benedictine Sisters of Sacred Heart, to Manhattan Const. Co., Muskogee. Est. **$500,000.** L. B. Senter, Philtower Bldg., Tulsa, archt. Awarded 8/30.

Pa., Abington—William M. Kuhn, 711 West Ave., Jenkintown, residential development, to Irvin H. Niessen, 301 York Rd., Jenkintown, over **$205,000.** Awarded 9/11.

Pa., Chester—A. Knobb & Co., Inc., 15 and Crosby Sts., residential developments, separate contracts. **$220,000.**

Pa., Clearfield—Bell Telephone Co. of Pa., 19 and Arch Sts., Phila., office bldg. to Ritter Bros., N. Cameron St., Harrisburg, over **$205,000.** Awarded 9/14.

Pa., Folsom—Amosland Homes Inc., Folsom, residential development, to Clyde L. Gross, 6502 Haverford Ave., **$660,000.** Awarded 9/11. Kare Otto, 6910 Market St., Upper Darby, archt.

Pa., Kennett Square—Facciolo Constr. Co., 1308 W. 9 St., Wilmington, Del., residential developments separate contracts. **$250,000.**

Pa., New Castle — Lawrence-Allegheny Constr. Co., 100 Homes, Jackson Ave. Owner builds.

Pa., Phila—Phila. Model Home Builders, 2233 W. Lehigh Ave., residential development, Loretta and Godfrey Aves., separate contracts. Over **$205,000.** CD 8/12—ENR 8/15.

Tex., Dallas—Owner, c/o Arnold J. Weil, archt., Construction Bldg., building units for Medical Center, Purchase and Hire. Approx. **$250,000.** CD 9/11—ENR 9/26.

Tex., Houston—Rice Institute, Main St., library bldg., to W. S. Bellows Const. Co., 716 N. Everton St., approx. **$210,000.** CD 3/29—ENR 4/18.

Sask., Saskatoon—Ball Myers Constr. Co., Inc., Fifth St. near Lorne Ave., 60 dwellings. Owner builds. **$372,000.**

★ **B. C., Burnaby**—Whitsell Const. Co. Ltd., 3820 Cambie St., Vancouver, 542 four, five, six, and seven room frame, stucco dwellings. Owner builds. **$3,000,000.**

B. C., Victoria—St. Joseph's Hospital, Victoria, 4 story, 63x108 ft. hospital addn., to Sullivan Constr. Co. Ltd., 718 Granville St., Vancouver. **$225,000.** H. W. Whittaker, Parliament Bldgs., archt.

INDUSTRIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked October 2

Mo., St. Louis—PLANT—Century Electric Co., 1806 Pine St., Zone 3, 6 story, bsmnt., 75x130 ft., 5 story, 109x180 ft. top addn., brick, rein.-con. industrial plant, 19 and Chestnut Sts. L. B. Pendleton & W. B. Ittner, Inc., 408 Bd. Educ. Bldg., 911 Locust St., assoc. archts.

Bids Asked

O., Cleveland—GARAGE, etc.—Ohio Bell Telephone Co., c/o A. W. Bailey, 750 Huron Rd., 1 story, 65x300 ft. brick, steel garage, Chatfield Ave. and W. 150 St., 40x100 ft. cable dock, incl. pole skids, fencing, railroad siding, gasoline storage sys., drainage, etc. Christian, Schwartzenberg & Gaede, 1836 Euclid Ave., engrs.

SOON LETS CONTRACT

Calif., San Jose—PLANT—Food Machinery Corp., 333 W. Julian St., soon lets contract 1 story, 300x600 ft., steel, concrete mfg. plant, administration bldg. K. Theill, 580 Market St., San Francisco, engr.

N. Y., Long Island City—FACTORY—Van Arden Shoe Co., 136 W. 22 St., New York, Zone 11, soon lets contract factory, 31-07 39 Ave. $115,000. W. O. Staber, 55 W. 42 St., New York 18, archt.

Pa., Phila. — RECTIFIER — Silverman & Levy, archts., 1411 Walnut St., soon lets contract brick, concrete, steel 3rd floor addn. to rectifier bldg. for Continental Distilling Corp., 1429 Walnut St. $125,000. CD 6/6—ENR 6/27.

Pa., Uniontown—BAKERY DEPOT, etc.—Ward Baking Co., 475 5 Ave., New York, N. Y., soon lets contract brick, steel, concrete bakery depot and garage. $55,000. J. Edwin Hopkins, 29 W. 40 St., New York, N. Y., archts.

Tex., Garland—PLANT—H. B. Gieb & Assoc., and B. W. Lanum, engrs. and archts., 1207 Texas Bank Bldg., Dallas, soon let contract completing Banbury plant bldg. and wrecking certain parts existing plant, for Seiberling Rubber Co., 345-15 St., Akron, O. $225,000. CD 7/2—ENR 7/11.

Tex., San Antonio—St. Gerard's Parish, 1617 Iowa St., soon lets contract 2 story, brick, concrete parochial school bldg. addn., New Brannfels Ave. and Pittman Park. $225,000. Phelps & Dewees & Simmons, 1515 Majestic Bldg., archts. CD 12/24/45.

Wis., Black Creek—FACTORY—Outagamie Producers Co-operative, Black Creek, soon lets contract 1 story, part bsmnt., 90 x 109 ft. cheese factory, brick on concrete blocks, glazed tile interior, concrete fdn. Foeller, Schober, Berners, Safford & Jahn, 310 Pine St., Green Bay, archts.

LOW BIDDERS

Ala., Abbeville—PLANT—Farmers Co-operative, Inc., Abbeville, received no bids Sept. 11, 500 freezer locker. CD 9/6—ENR 9/12.

Conn., Ansonia—FOUNDRY—Farrell Birmingham Co., 30 Main St., 1 story, 120 x 350 ft., brick, steel, concrete foundry, factory addn., Main St. Over $55,000. Westcott & Mapes, Inc., 109 Church St., New Haven, engr.

Mass., Malden — GARAGE-SHOWROOM — Gibbs Motor Co., 163 Eastern Ave., 1 story, concrete public service garage with wing for showroom. $55,000. Mendel Waters, 101 Water St., Boston, archt.

Mass., Pittsfield—PLANT—Stetson Sanitone Cleansers, 35 Federal St., 1 story, bsmnt., brick cinder blocks steel dry cleaning plant, cold storage facilities, North St. $55,000. Pittsfield Eng. Co., 73 North St., engr.

R. I. Providence — WAREHOUSE — Chase Brass & Copper Co., Waterbury, Conn., 1 story, brick, steel warehouse, Brandon Ave. $90,000. Charles A. Maguire Co., 1515 Turks Head Bldg., engr.

Tex., Abilene—TERMINAL—Cosden Petroleum Corp., 1516 E. El Paso St., Fort Worth, oil products storage and distr. terminal. $75,000.

Tex., Eastland—TERMINAL—Cosden Petroleum Corp., 1516 E. El Paso St., Fort Worth, oil products storage and distr. terminal. $75,000.

Tex., Sweetwater—TERMINAL—Cosden Petroleum Corp., 1516 E. El Paso St., Fort Worth, oil products storage and distr. terminal. $80,000.

Que., Granby—PLANT—Imperial Tobacco Co. of Canada, Ltd., 3810 St. Antoine St., Montreal, 1 story, 50 x 200 ft. exten. to Bldg. 27 at Empire Branch, 160 Couse St. About $60,000.

CONTRACTS AWARDED

Ala., Dothan — FACTORY — Indian River Textile Co., 85 Franklin St., New York, N. Y., remodeling old Howell School into pajama factory, to Heywood Davis, Dothan. $55,000. CD 7/22—ENR 8/8.

Calif., Berkeley—WAREHOUSE—San Francisco Sulphur Co., 636 California St., San Francisco, warehouse, to C. Norman Peterson, 70 Rock Lane. Est. over **$55,000.** CD 8/27—ENR 8/29.

Calif., Fresno — WAREHOUSE — Fresno Warehouse Co., State Hy., rebuilding fire destroyed warehouse, to J. T. Cowan, 546 Brix Bldg. Est. **$100,000-$150,000.**

Calif., Los Angeles—FACTORY—A. & J. Realty Co., 412 E. 9 St., 4 story, brick factory, 412-416 E. 9 St., to Sapp Constr. Co., 1845 S. Beverly Glen Blvd. Approx. **$100,000.** J. E. Mackel, 234 N. Main St., engr.

Calif., Los Angeles—FACTORY—Apex Steel Corp., Ltd., 6111 S. Eastern Ave., 118x260 ft. factory, 70x125 ft., steel office, own forces. **$94,000.** A. C. Martin & Assoc., 333 S. Beaudry Ave., archt.

Calif., Los Angeles—FACTORY—Bauman Furniture Mfg. Co., 6236 S. St. Andrews Pl., 48x164 ft. and 62x123 ft., steel, concrete, brick factory addn., alterations, own forces. **$100,000.** A. C. Leatherwood, 2454 Kenilworth St., engr.

Calif., Los Angeles—FACTORY—M. Forbes, 315 W. 9 St., 2 story, 46x100 ft., rein.-con. factory, 1333 S. Olive St., own forces. **$60,000.** Farrington & Goldberg, 326 W. 3 St., archts.

Calif., Los Angeles—FACTORY—Ted Saval, 822 S. Wall St., 2 story, 120x140 ft., rein.-con brick factory, 1500 S. Broadway, to M. Feigenbaum, 5036 W. Jefferson Blvd. **$105,000.** J. J. McKinnon, 205 S. Broadway, engr.

Calif., Los Angeles—FACTORY—Steamaster Automatic Boiler Co., 5819 Compton Ave., 1 story, 68x260 ft., steel factory, traveling crane-way, to Economy Steel Co., 9901 S. Alameda St. Approx. **$55,000.**

Calif., Los Angeles—TROLLEY-BUS SERVICE and SHOP—Los Angeles Transit Lines, 1060 S. Broadway, 90x150 ft., steel, stucco trolley-bus service and shop bldg., 636 S. Central Ave., to J. A. McNeil Co., 714 W. Olympic Blvd. Approx. **$100,000.**

Calif., Monrovia—FACTORY—Pan American Trailer Co., 974 S. Fair Oaks St., Pasadena, 1 story, 60x750 ft., frame factory, 1700 Shamrock St., own forces. **$90,000.** G. F. Smith & W. C. Moore, 3806 Beverly Blvd., Los Angeles, archts.

Calif., Richmond—LABORATORY—Standard Oil Co. of California, 225 Bush St., San Francisco, part 6 story, 2 story and 1 story, office and laboratory, shopprocess laboratory, pilot plant, 4 sections, to Swinerton & Walberg Co., 225 Bush St., San Francisco. Est. over **$55,000.** CD 9/17.

NDUSTRIAL BLDGS. (Contracts Awarded, Cont'd.)

Calif., Santa Clara—FACTORY—Dickinson & A. R. Merrill, 202 Pine St., Salinas, and . A. Smith, 1014 Roosevelt St., Bakersfield, x100 ft., 30x60 ft., 40x50 ft. prefabricated mes factory, to Peter J. Pasetta, 2390 Park ve. Est. $65,000. CD 5/24—ENR 5/30.

Calif., San Leandro—PLANT—Freezall Inc., n Leandro Blvd. and Parrott St., 1½ story ment block freezing and processing plant, D. W. Nicholson Corp., 1701 San Leandro lvd. Est. over $55,000. G. L. Rosebrook, 01 San Leandro Blvd., archt.

Conn., East Hartford—PLANT—Conn. Farm- Co-operative Auction Co., Burnside Ave., story, 2 wings, brick plant addn., to Cole- an Constr. Co., 1504 Turks Head Bldg., rovidence, R. I. Est. $55,000. CD 4/11— NR 4/18.

Conn., Waterbury — FOUNDRY — Scoville fg. Co., 99 Mill St., brick, concrete, steel undry, to Stone & Webster Corp., 49 Fed- al St., Boston, Mass. $638,000. H. L. Thomp- n, 99 Mill St., archt. CD 4/26—ENR 5/16.

Conn., West Haven—FACTORY—Chruch- ard & Co., Inc., 37 Water St., 1 and 2 story, ncrete, metal, steel welding plant addns., terations. Water St. Owner builds. $75,000.

Conn., Willimantic—WAREHOUSE—W. D. rant Grain Co., 36 Valley St., 1 story, 85x220 brick, steel warehouse, Union St., to Joseph asin, High St. Est. $65,000. CD 6/27—ENR 6.

Calif., Wilmington — FACTORY — Marine ngrg. & Supply Co., 949 E. 2 St., Los Angeles, story, 80x400 ft., structural steel frame fac- ry, to Bechtel Bros.-McCone Corp., 3780 ilshire Blvd., Los Angeles, approx. $105,000.

Ga., Atlanta—FACTORY—Kraft Foods Co., 0 N. Peshtigo St., Chicago, Ill., 2 story eese factory, Chester St., to Del E. Webb onstr. Co., Lincoln Tower, 75 E. Wacker Dr., hicago, Ill. $100,000. Graham, Anderson, robst & White, 80 E. Jackson Blvd., Chicago, l., archts.

Ill., Chicago—PLANT—McCormick & Hen- rson. 411 S. Wells St., 3 story, brick print- g plant, to E. L. Anderson Co., 3244 W. bster St. Est. $65,000. H. W. Martinson, 14 N. Talman St., archt.

Mass., Somerville—TRUCK TERMINAL—Silvia Transportation Co., 5 Broadway, 1 ory, 100x200 ft., brick, steel truck terminal, Max Druss, 5 Broadway. Est. $60,000.

Minn., Minneapolis—BAKERY and DISTRI- UTION WAREHOUSE—Purity Baking Co., S. Tombers, vice pres., general contract 1 ory, bamnt., L-shaped, 90 x 113 ft., rein.- n. brick bakery and distr. warehouse, 500 36 St., to M. Schumacher & Assoc., 438 aker Bldg. $125,000. CD 6/10—ENR 6/27.

Minn., Minneapolis—FACTORY—Standard on & Wire Works, H. H. Z. Demeules, 1900 ortheast 3 St., general contract 1 story, t bamnt., 100 x 200 ft. steel, concrete block rtain-wall factory, 30 Ave. and North and Sts., to G. F. Cook Constr Co., 2608 Nicollet ve. Est. about $120,000. Bids 9/6. CD 8/27 -ENR 9/5.

Mo., Lutesville—FACTORY—Bollinger Co., o County Court, and Spalsbury-Steis-Deev- n Shoe Co., 1523 Washington Ave., St. Louis, Mo., 1 story, 64 x 250 ft., brick, concrete oe factory, Hy. 34, northwestern edge of ty. to Penzel Constr. Co., Jackson. Est. 0,000.

Mo., St. Louis—LAUNDRY—St. Mary's In- mary, Sisters of St. Mary, Inc., c/o Mother Concordia, pres., 6420 Clayton Rd., Rich- ond Heights, Zone 10, 1 and 2 story, bamnt., x 118 ft., brick, concrete, steel boiler house, undry, 1525 Chouteau Ave., to John B. tumann Constr. Co., 220 North 4 St., Zone Est. $55,000. P. M. O'Meara & Assoc., 4908 elmar Blvd., Zone 8, archts.

N. J., Garwood—FACTORY—National Gyp- m Co., 420 Lexington Ave., New York, 17, Y., factory addn., to Andrew Christenson Son, 1140 E. Jersey St., Elizabeth. Est. 0,000.

N. C., Wilmington—MILL—Port City Hos- y Mill, c/o M. C. Brown, mgr., Wilming- n, concrete, steel mill addn., to C. M. Guest Sons, Box 2249, Greensboro, $60,000.

O., Cleveland — FACTORY — Superior Die astings Co., 17325 Euclid Ave., 70x300 ft. d 100x220 ft., brick, steel, concrete die stings factory to Sam W. Emerson Co., 16 Euclid Ave. Approx. $200,000. CD 7/16 ENR 7/25.

O., Danville—PLANT—Ohio Asphalt Pav- g Corp., c/o John Lupe, mgr., Portsmouth, phalt plant, Scott's Stone Quarries, to rownie Bros. Constr. Co., Portsmouth. Est. 0,000.

Pa., Phila—POWER PLANT—Drexel Insti- te of Technology, 32 and Chestnut Sts., wer plant addns., alterations to Haverstick orthwick Co., 1505 Race St., $75,000. arded 9/12. Office of Edward P. Simon, 123 Broad St., archt.

Pa., Phila—WAREHOUSE, etc.—Frankford al & Supply Co., Inc., James and Orthodox ., 1 story, 50 x 180 ft. concrete block ware- use and platform, separate contracts. $55,- 0. Herman H. Kline, 4248 Chestnut St., cht.

Pa., Phila—MANUFACTURING—Sharpless rp., 22 and Westmoreland Sts., 1 story, x 180 ft., concrete block mfg. bldg. addn., Barclay White Co., 22 N. 36 St., $90,000. arded 9/14. I. S. Towsley, 112 S. 16 St., gr. and archt.

Pa., Pittsburgh—PLANT—Fort Pitt Mfg. Co., 1501 Preble Ave., 1 story, 40 x 102 ft., brick, steel, concrete mfg. plant, Preble Ave., to The Trimble Co., 1719 Penna Ave. Est. $60,000.

Pa., Pittsburgh—PLANT—Hartley Cleaners Co., 804 East St., N. S., 1 story, brick, concrete steel dry cleaning plant, 801 East St., to Ranallo Constr. Co., 4723 Baptist Rd., Zone 10. Est. $60,000. C. Weber, 114 Montana St., archt.

Pa., Trafford—PLANT—Westinghouse Electric Corp., Union Bank Bldg., Pittsburgh, 1 story, 105 x 175 ft., brick, concrete block, steel frame mfg. bldg. addn., separate contracts. $80,000.

S. C., Spartanburg—SALES and SERVICE—Ernest Burwell, Inc., N. Church St., auto sales and service bldg., to Fiske Carter Const. Co., Spartanburg. Est. $125,000. Chapman & Hudson, Spartanburg, archts. CD 9/13.

S. D., Mobridge—POWER PLANT—Montana-Dakota Utilities Co., Mobridge, power plant imprvs. incl. 2 diesel units, bldg. alterations to S. W. Johnson & Co., Citizens Bldg., Aberdeen, approx. $60,000. C. M. Garland & Co., 38 S. Dearborn, Chicago, Ill., engr.

Tenn., Memphis—PLANT—Kimberly-Clark Corp., Neenah, Wis., general contract altering, imprv. plant, to Tri-State Constr. Co., Manhatten Bank Bldg., Hanker & Heyer, Commerce Title Bldg., archts.

Tex., Austin—PLANT—Superior Dairies Milk Bottling Plant, 608-610 E. 1 St., 111x112 ft. milk bottling plant adjoining present ice cream plant, to R. H. Folmar, 205 Riverside Dr., approx. $130,000. Giesecke, Kuhne, & Brooks, 121 E. 8 St., archts.

Tex., Dallas—SHOPS, GARAGE, etc.—Continental Trailways Bus Sys., M. E. Moore, pres., McKinney and Lamar Sts., shops, garage and maintenance office bldg., to Nathan Wohlfeld, 3936 Glendora St. $500,000. Wyatt C. Hedrick, 1st National Bank Bldg., Fort Worth, archt. CD 6/21—ENR 7/4.

Tex., Goose Creek—WAREHOUSE, etc.—Houston Lighting & Power Co. (Tri-Cities Div.) 1016 Walker St., Houston, warehouse and service shop. Owner builds. $100,000. CD 6/21—ENR 7/4.

Tex., Port Arthur—BAKERY PLANT—Jack Strauss & Assoc., c/o H. C. LeVois, Beaumont, Tex., bakery plant, force account. $65,000.

★**Tex., Texas City**—PLANT—Carbon & Carbide Chemical Corp., 30 E. 42 St., New York, N. Y., design and construction 55x55x27 ft. compressor bldg. 51x160x100 ft. equip. bldg. 20x13x202 ft. gas separation plant control bldg. three 29x60x20 ft. pump houses, three 12x18x10 ft. electric control bldgs., to Ford, Bacon & Davis, c/o H. M. Hays, Texas City, approx. $4,000,000. CD 8/7—ENR 8/15.

Wis., Burlington — FACTORY — Reliable Rubber & Engrg. Wks., 1 story, 75 x 107 ft., steel, concrete block factory, concrete fdn., to K. E. Onstad, Burlington.

Wis., Fond du Lac—FACTORY—Kiekhaefer Aeromarine Motors, Inc., Fond du Lac, 1 story, 90x28 ft., brick, concrete block, steel factory, to Immel Co., 562 N. Main St. Est. $87,158.

Wis., Green Bay—FACTORY—Fort Howard Paper Co., R 7, 2 story, bamnt., 100 x 200 ft., brick, concrete block, rein.-con. paper mill factory, concrete fdn., to Selmer Co., Northern Bldg. R. W. Surplice, City Center Bldg., archt.

Wis., Sheboygan — WAREHOUSE, etc. — Schultz Bros. Co., 2621 Calumet Dr., 1 and 2 story, 100 x 200 ft., steel, concrete, cinder block, warehouse and office, to Schuman Const. Co., Kohler. E. A. Juul, 919 N. 8 St., archt.

Wis., Whitewater—FACTORY—Whitewater Mfg. Co., Whitewater, 1 story, 71 x 148 ft., concrete block factory addn., concrete fdn., day labor. CD 8/20—ENR 8/22.

UNCLASSIFIED

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked October 1

N. Y., Brooklyn—STATION FINISH—Bd. Transportation, 250 Hudson St., New York, Zone 13, station finish for Euclid Ave. Station, Rte. 110, Sect. 10. CD 9/19—ENR 9/21.

N. Y., New York—PARKS—Comr. Parks, Dpt. Parks, Arsenal Bldg., Central Park, 64 St. and 5 Ave., Zone 21, reconstructing Linden Park, 41 St. and 42 Aves. between 103 and 104 Sts., Queens Boro, Contr. Q-26-144. Plans deposit $20.

Bids Asked October 2

Illinois—DISTRIBUTION SYS—Southeastern Illinois Electric Co-operative, Harrisburg, 138.57 mi. rural electric distr. sys., 72 extens., Franklin, Hamilton, White, Williamson, Saline, Gallatin, Johnson, Pope and Hardin Counties. $200,000. Plans deposit $25. Michael Drazen & Assoc., 4903 Delmar Blvd., St. Louis 8, Mo., engrs. CD 4/26—ENR 5/16.

B. C., Port Alberni—WHARF—Secy. Dpt. P. Wks., Ottawa, Ont., widening, exten. Assembly Wharf. About $125,000. Plans deposit $25. R. Blais, c/o owner, engr.

Bids Asked October 7

†**Montana-North Dakota** — TRANSMISSION LINE—Bureau Reclamation, Denver, Colo., Glendive-Miles City and Fort Peck-Williston, 115 kva. transmission lines, Fort Peck Proj. and Williston-Garrison Dam, 115 kva. transmission line, power transmission lines unit, Missouri Basin Proj., Montana-North Dakota and Power Transmission Lines Unit, Missouri Basin Proj., Spec. 1411. Extended date.

Bids Asked October 8

Okla., Oklahoma City—TRAFFIC CONTROL SIGNALS—E. M. Simon, city clk., 13 electric traffic control signals and equipment for street traffic sys. $46,000. Grant Landon, City Hall, engr. CD 12/5/45—ENR 1/3.

Bids Asked October 11

Ia., New Hampton — HEATING SYSTEM — City, heating sys., $100,000. J. B. Harris Co., Wesley Temple Bldg., Minneapolis, Minn., engr.

Bids Asked October 22

†**Wyoming**—TRANSMISSION LINE—Bureau Reclamation, Dpt. Interior, Cody, constructing Heart Mountain-Garland, 69 kilovolt transmission line, Shoshone Project, near Cody and Garland, Spec. 1482. W. R. Young, Denver, 2, Colo., ch. engr.

Bids Asked

Pa., Phila.—TANK FOUNDATIONS—Barrett Div. of Allied Chemical & Dye Corp., 36 St. and Grays Ferry Ave., tank foundations. Over $40,000.

★**Texas** — OIL PRODUCTS PIPELINE — Cosden Petroleum Corp., 1516 E. El Paso St., Fort Worth, 325 mi. 4 in. oil products pipeline between Big Spring and Fort Worth, Dallas areas, Howard Co. $2,500,000. CD 8/14 —ENR 9/5.

LOW BIDDERS

†**Arizona-Nevada**—TRANSMISSION LINE—Bureau Reclamation, Denver, Colo., rejected bids Sept. 10, Davis Dam-Kingman 69 kva. transmission line, Davis Dam Proj. L.B. $92,-470. Will readvertise.

Calif., Cassel—FISH HATCHERY—State Div. Architecture, P. Wks. Bldg., Sacramento, received no bids Sept. 11, fish-rearing ponds, concrete water control structures, canal, road, etc., Proj. 1, Crystal Lake Fish Hatchery near here. CD 9/5.

Ill., Chicago—SUBWAY—City, Subways & Superhighways, 20 N. Wacker Dr., Sept. 12, waterproofing subway structures, Dearborn St. Subway, Contr. W-3, from Intrusion-Prepakt, Inc., 80 E. Jackson Blvd. $129,090. CD 8/23—ENR 8/29.

★**N. Y., New York**—PLATFORM EXTENSIONS—Bd. Transportation, 250 Hudson St., Zone 13, Sept. 19, platform extens., various stations on IRT system, from Spencer White & Prentis, 10 E. 40 St., Zone 17. $3,639,000. CD 9/6/45—ENR 9/20/45, under New York.

Tex., Corpus Christi—RADIO STATION—Walmac Co., c/o H. W. Davis, and R. F. & W. Broadcasting Co., project abandoned radio television station. $60,000. CD 10/26/45—ENR 12/15/45.

CONTRACTS AWARDED

★**Calif., Los Angeles** — GAS PIPELINE — Southern California Gas Co. & Southern Counties Gas Co., 8010 S. Flower St., installing 214 mi. 30 in. gas pipeline, Santa Fe Springs to Blythe, to H. C. Price Co., Bartlesville, Okla. $3,750,000. Bids 9/9. CD 8/21—ENR 8/29.

Calif., Sausalito—PIERS—Sausalito Shipbuilding Co., R. Rich, genl. mgr., 1702 Bridgeway, 6 piers providing berthing facilities, for fishing fleet, marine restaurant, admin. bldg., etc., own forces; dredging 300,000 cu. yd., to Associated Dredging Co., 465 California St., San Francisco. Planning & Engrg. Assn., 1161 Market St., San Francisco, archts.

Illinois — TRANSMISSION LINE — Edgar Electric Co-operative Assoc., Paris, 363 mi. electric transmission line, Edgar Co., to A. A. Electric Co., 3125 S. 60th Court, Cicero, Zone 50, $129,968. CD 6/12.

Iowa—TRANSMISSION LINES—Ida County Rural Electric Co-operative, Ida Grove, 44 mi. transmission lines, Ida Co., force account. $60,000. CD 11/29—ENR 12/13.

Kansas—TRANSMISSION LINE—The Co-operative Power & Light Co., Inc., Iola, 153.3 mi. electric transmission line, Allen Co., to J. R. Foree Constr. Co., 421 Rulledge St., Topeka. $100,542. Flora Engrg. Co., 1618 Russell Ave., Cheyenne, Wyo., engr. CD 1/9—ENR 1/24.

Texas — TRANSMISSION LINES — Lower Colorado River Electric Co-operative, Inc., Giddings, 396 mi. rural electric power transmission lines, Lee Co., force account. $455,-000. CD 5/31—ENR 6/31.

Tex., Brady—LIGHTING, etc.—City, W. R. Mayse, secy., outside street lighting sys. and Whiteway, to General Electric Supply Co., Abilene. Approx. $44,000.

British Columbia—POWERLINE TOWER BASES—British Electric Ry. Co. Ltd., A. C. Eddy, ch. engr., 425 Carrall St., Vancouver, piling and concrete bases for 6 powerline towers, Annacis Island, Patrick Island and Marpole, to Commonwealth Constr. Co., Ltd., 670 Taylor St., Vancouver. $56,000. Awarded 9/16.

LAST MINUTE CONSTRUCTION REPORTS

WATER SUPPLY

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 7

Ala., Eclectic—City, c/o Mayor, WW imprvs. $60,000. Polglaze & Basenburg, Empire Bldg., Birmingham, engrs.

Minn., Walnut Grove—Village, A. W. Olson, clk., WW imprvs., installing 2,011 lin. ft. 4 and 6 in. c.i. pipe, furnishing, installing 16,450 lin. ft. 4 and 6 in. c.i. pipe, etc. $63,000. Banister Engrg. Co., 1547 University Ave., St. Paul, engr. CD 9/18—ENR 9/26.

Bids Asked October 30

Wis., Port Washington—City, filtration plant. $285,000. Greeley & Hansen, 220 S. State St., Chicago, Ill., engrs. CD 4/11—ENR 5/5.

LOW BIDDERS

Vt., Proctorsville—Town, Bd. Selectmen, Town Hall, rejected bids watermains, steel standpipe, wells. **$80,000.** CD 8/20—ENR 8/22.

Va., Pulaski—Town, Municipal Bldg., rejected bids Aug. 6, gravity dam, reservoir cleaning, filter plant, steel storage tanks, etc. incl. pipelines. Wiley & Wilson, Peoples Bank Bldg., Lynchburg, engrs. CD 7/19—ENR 7/25.

W. Va., Hollidays Cove—City, S. Wright, mayor, City Hall, rejected bids Aug. 23, Contr. 1 to 4, WW. Will readvertise. A. LeFeber, 731 Temple Bar Bldg., Cincinnati 2, O., consult. engr. CD 7/15—ENR 7/18.

CONTRACTS AWARDED

Minn., Blue Earth—City, Bd. P. Wks., J. J. Kehr, secy., furnishing, erecting 250,000 gal. elevated steel water tank, to Pittsburgh-Des Moines Steel Co., 1015 Tuttle St., Des Moines, Ia. **$38,000.** Bids 8/22. CD 8/21.

Minn., Glencoe—City, S. S. Zavoral, clk., WW imprvs., drilling two 500 g.p.m. wells, to McCarthy Well Co., 670 Eustis Ave., St. Paul. **$36,000.** Bids 9/3. CD 8/21—ENR 8/29.

S. C., Gaffney—City, c/o Bd. P. Wks., Gaffney, WW imprvs., to Boyd & Goforth, Inc., 617 N. Smith St., Charlotte, N. C. **$193,434.** CD 9/3—ENR 9/5.

SEWERS, WASTE DISPOSAL

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 7

Tex., Houston—City, M. H. Westerman, secy., 3rd section Simms Bayou treatment plant. $45,000.

Bids Asked October 8

Mass., Worcester—City, Sewer Dpt., sewage plant imprvs., Worcester Cut-off, incl. 24- to 48-in. pipelines, compressor house, filters, clarifiers, etc. Over $40,000. Plans deposit $25. Hayden, Harding & Buchanan, 662 Park Square Bldg., Boston, engrs. CD 3/29—ENR 4/18.

Bids Asked October 16

Fla., Jacksonville—City, 2 garbage incinerators. About $200,000. W. E. Sheddon, city engr.

Que., Montreal—Municipality, J. A. Mongeau, clk., sewer in connection with the renewal of collector sewer in De Lormier Ave. Over $50,000. Plans deposit $100. H. A. Gibeau, City Hall, engr.

LOW BIDDERS

Calif., Hughson—Hughson Sanitary Dist., 365 Hughson Ave., Sept. 13, sanitary sewer and trunk sewer, alternate bids on (A) vitr. clay pipe, (B) concrete pipe (1) collection sewers (2) sewage disposal facilities (3) industrial sewage facilities, (A-1 and B-1) from Manuel Smith, 313 Syndicate Bldg., Oakland, **$77,411** and **$80,569** respectively; (B-2 and B-3) from McGuire & Hester, 796 66 Ave., Oakland, **$35,093** and **$57,278** respectively. CD 8/16—ENR 8/22.

Kan., Ottawa—City, City Hall, did not receive bids Aug. 15, sanitary sewers. $40,000. Job is only in proposed stage. (**Correction**—status). W. O. Meyers, City Hall, engr. CD 8/7.

Mass., Worcester—City, Sewer Dpt., City Hall, Sept. 16, storm and sanitary sewers, Saxon, Westerbrook and Kennicutt Rds., from N. Cibotti & Andreassi, 52 Charm Ave., Roslindale. **$150,560.** CD 9/6—ENR 9/12.

CONTRACTS AWARDED

Minn., St. Louis Park—Village of St. Louis Park, J. Justad, clk., and Village of Hopkins, J. R. Carroll, clk., joint district sewer for Sanitary Joint Sewer Dist. 2 (connecting Minneapolis-St. Paul Joint Sewage Disposal sys.), to A. Johnson Constr. Co., 608 Foshay Tower, Minneapolis. **$704,180.** Tentative Award. Bids 8/26. CD 8/15.

Neb., O'Neill—City, J. B. Grady, clk., sewers, to Chas. Robeck Const. Co., Sunderland Bldg., Omaha. **$56,064.** Bids 9/9. D. Price, 1827 S. 26 St., Lincoln, engr.

Va., Portsmouth — City, Municipal Bldg., 2,300 ft. 48 in. flexible joint c.l. pipe, outfall sewer, Elizabeth River, to McLean Contracting Co., Fidelity Bldg., Baltimore, Md. **$294,200.** Bids 8/20. F. J. Bergeron, Municipal Bldg., city engr. CD 7/24—ENR 8/1.

BRIDGES

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 7

†Colorado — Bureau Reclamation, Denver, furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Kremmling, structural steel and cables for Blue River Suspension Bridge, Loback Ditch, Green Mountain Dam, Colorado-Big Thompson Proj., Spec. 1479.

Bids Asked October 31

District of Columbia—Commissioners District of Columbia, District Bldg., superstructure for South Capitol St. bridge across Anacostia River. Plans deposit $25, adv. ENR 9/26. CD 10/8/45—ENR 10/11/45.

LOW BIDDERS

California—State Div. Hys., Sacramento, rejected bids Sept. 11, 2 bridges, imprv. 0.8 mi. Napa and Lake Counties. L. B. **$220,236.** CD 9/17—ENR 9/19.

Florida—State Rd. Dpt., Tallahassee, Sept. 19, overpass bridge, Gadsden Co., from Okeechobee Constr. Co., 140½ Stockton Ave., Jacksonville, **$44,015**; bridge, approaches, Okeechobee Co., from Cleary Bros. Constr. Co., West Palm Beach, **$260,537.** CD 9/3—ENR 9/5.

Indiana—State Hy. Comn., Indianapolis, rejected bids Aug. 27, bridge over Yellow River, Burr Oak, Marshall Co. L. B. **$69,851.** Will readvertise. CD 8/20—ENR 9/5.

Kentucky—Dpt. Hys., Frankfort, received no bids Sept. 20, 0.325 mi. flood damage repair bridges, Harlan Co. CD 9/5—ENR 9/12.

Pennsylvania—State Hy. Dpt., Sept. 20, bridge, over Pennsy Creek, approaches, Snyder Co., from R. H. Miller Co., Lancaster, **$171,802.** Received no bids Sept. 20, bridge, over Mill Creek, paving 0.4 mi. hy., Luzerne Co. CD 8/22—ENR 8/29.

Utah—State Rd. Comn., State Capitol, Salt Lake City, substructures for concrete, steel bridge across Green River near Green River, Emery and Grand Counties, from F. R. Knowlton, Layton, **$102,509.** Est. $92,234. Bids 9/13.

Virginia—State Dpt. Hys., Richmond, Sept. 19, bridge over Staunton river at Altavista and 1,385 ft. sidewalk on Route 29, Campbell and Pittsylvania Counties, from Charles & Reese, Glenn Allen. **$39,664.** CD 9/9—ENR 9/12.

CONTRACTS AWARDED

Maryland — State Roads Comn., Baltimore, bridge, Anne Arundel Co., to Whiting Turner Constr., National Marine Bank, Baltimore. **$794,274.** CD 8/20—ENR 8/22, under L. B.

STREETS AND ROADS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 2

Mass., Newton—City of Newton, City Hall, 1000 Commonwealth Ave., Newton Center, concrete repaving 4.100 ft. Lowell Ave. from Walnut St. to Hull St. Over $40,000.

Bids Asked October 4

Que., Arvida—City, J. A. Frechette, secy., 1.3 mi. road from Tackereau Rd. to Saguenay River. About $45,000.

Bids Asked October 8

Ohio—State Hy. Dpt., Columbus, grading, paving, 3 concrete bridges 0.366 mi. S.H. 854, Perry Co., $102,700; 0.293 mi. S.H. 535, Washington Co., $9,560; 0.169 mi. S.H. 919, Trumbull Co., $12,700; 0.601 mi. S.H. 650, Trumbull Co., $12,600; 0.361 mi. S.H. 77, Stark Co., $8,070; 0.311 mi. S.H. 460, Portage Co., $6,580 ***1.163 mi. S. Hy. 355, 358 and 518, Perry Co., $20,180; 1.28 mi. S.H. 4, Crawford Co., $33,100; 8.2 mi. S.H. 473, Clinton Co., $33,920; grading, drainage structures, concrete paving 0.498 mi. Mt. Vernon State Hospital access road in Monroe Twp., Knox Co., $26,750; widening, asphaltic concrete resurfacing 1.114 mi. S.H. 827, Lorain Co., $58,000; 1.495 mi. S.H. 14, Mahoning Co., $28,720; bituminous macadam resurfacing 3.789 mi. S.H. 976, Morrow Co., $42,500; drainage facilities, asphaltic concrete resurfacing 0.205 mi. S.H. 14, Mahoning Co., $12,550; grading, drainage structures, road mix surfacing 2.239 mi. S.H. 7, Lawrence Co.

LOW BIDDERS

Florida—State Rd. Dpt., Tallahassee, Sept. 19, imprv. 1.349 mi. Duval Co., from B. B. McCormick & Sons, Jacksonville Beach, $335,190***3.914 mi. Orange Co., from Langston-Hubbard Constr. Co., Orlando, $77,687;***7.15 mi. Gulf Co., from Smith Engrg. & Constr. Co., Pensatcola, **$61,842*****8.989 mi. Polk Co., from Cone Bros. Constr. Co., Caesar Ave. and Cambridge, Tampa, **$505,267*****1.54 mi. Rd. 518, 0.528 mi. Rd. 140, 3.245 mi. Rd. 140, Broward Co., from Belcher Oil Co., 1220 Biscayne Ave., **$58,124.** CD 9/3—ENR 9/5.

Kentucky—Dpt. Hys., Frankfort, Sept. 20, imprv. 7.847 mi. Marshall Co., from White Consolidated, Inc., 1735 W. Fullerton Ave., Chicago, Ill., **$104,266*****0.746 mi. Mason Co., from Fuller-Davies Co., Covington, **$72,367***** 5.151 mi. Hancock and Ohio Counties, from W. M. Hooper, Caneyville, **$138,439*****7.262 mi. Pike Co., from Nally & Ballard, Bardstown, and R. R. Dawson, Bloomfield, **$134,936.** CD 9/5—ENR 9/12.

Maryland—State Hy. Dpt., Baltimore, Sept. 17, grading, draining, sand bituminous road mix surfacing 1.679 mi. along road off State Route 352, Wicomico Co., from H. L. Phillips, Salisbury. **$61,938.**

Minn., Duluth—St. Louis Co., W. H. Borgen, aud., rejected bids Aug. 30, gravel base, bituminous surfacing 9.7 mi. between Rd. 1 and 2 mi. west of Trunk Hy. 53, SP 69-530-02 (SA 22), Minn. Proj. S300 (1).

Pennsylvania—State Hy. Dpt., Harrisburg, Sept. 20, imprv. 1.19 mi. Cambria Co., from Cornish & Dickerson, Uniontown, **$233,893;** 0.16 mi. Philadelphia Co., from F. R. Curtis, State Rd. and S. Unruh St., Phila., Zone 35, **$54,722.** CD 8/22—ENR 8/29.

Pennsylvania—State Hy. Dpt., Harrisburg, received no bids Sept. 20, imprv. 0.25 mi. Traffic Rte. 51, Beaver Co.; 7.58 mi. Traffic Rte. 96, Bedford Co.; 0.61 mi. Rural Route 11024, Cambria Co.; 3.14 mi. U.S. Rte. 30, Franklin Co. CD 8/22—ENR 8/29.

South Dakota—State Hy. Comn., Pierre, rejected bids Aug. 13, imprv. 5.827 mi. Proj. SN-FA 40 (3), Sect. A, McCook Co. CD 8/2.

†South Dakota—U. S. Forestry Service, Dpt. Agriculture, 14 St. and Independence Ave. S.W. Wash., 25, D. C., grading, draining 1.629 mi. Deadwood-Custer-Hot Springs Route Pennington Co., from Peter Kiewitt Sons Co., Sheridan, Wyo., **$115,090;** 2.82 mi. Deadwood-Custer-Hot Springs Route, Pennington Co., from Northwestern Engineering Co., Rapid City, **$215,200.**

Vermont—State Dpt. Hys., Montpelier, Sept. 20, grading, gravel sub-base, drainage, crushed gravel M-I-P surface course 2.584 mi. hy. Lowell, Orleans Co., from R. F. Carpenter, Alburg. **$139,843.** CD 9/11.

Virginia—State Dpt. Hys., Richmond, Sept. 19, imprv. 3.57 mi., Bland Co., from John A. Archer & Son, Wytheville, **$116,026*****7.94 mi., Giles Co., from Pendleton Const. Corp., Wytheville, **$320,576*****5.5 mi., Prince William Co., from Robert T. Main, Jr., Roanoke, **$64,991*****grading, draining 1.47 and gravel and macadam ramps and connection on 1.52 mi. Fairfax Co., from Waller Paving Co., Salisbury, Md., **$300,559.** Received no bids Sept. 19, imprv. 6.83 mi. Highland Co., will readvertise. CD 9/9—ENR 9/12.

Wash., Spokane—Spokane Co., County Courthouse, Sept. 16, grading, draining, surfacing 2.55 mi. Trent Rd. revision from Clifton and Applegate, Box 1473, Spokane, **$42,261*****7.46 mi. Latah Spring Valley Rd., from Myberg Constr. Co., Yardley, **$41,922*****5.68 mi. Deadman Creek Rd., from F. R. Hewett, 420 W. 22 St., Spokane, **$41,280.** C. J. Chaffins, co. engr. CD 9/12.

CONTRACTS AWARDED

Fla., Jacksonville—City, paving, refinishing sections Julia, Church, Duval, Springfield Blvd., Market and Adams Sts., to Duval Engrg. & Contg. Co., foot of Adams St., Zone 1. **$49,592.** Bids 9/19, awarded 9/20. CD 8/22—ENR 8/29.

Indiana—State Hy. Comn., Indianapolis, imprv. 3.29 mi. Vanderburgh and Spencer Counties, to Feigel Constr. Co., 402 Court Bldg., Evansville. **$96,467.** Bids 9/10, awarded 9/15.

Minnesota—State Hy. Dpt., St. Paul, imprv. 10 mi. between Hy. 2 west of Deer River, 10 mi. northeast, to A. Guthrie & Co., 424 Endicott on 4 St. **$114,570.** Bids 9/13. CD 8/29—ENR 8/5, under Minn., St. Paul.

Minn., Duluth—St. Louis Co., W. H. Borgen, aud., imprv. 8.9 mi. between Co. Rd. 92 and 656.3 ft. south of SA Rd. 133, Proj. S 867 (8), to Barton Sharretts, 1463 Marshall Ave., St. Paul. **$74,495.** Bids 8/30. CD 8/15—ENR 8/22.

New York—Bureau Contract & Accounts, Governor A. E. Smith, State Office Bldg., Albany, imprv. 4.66 mi. Hempstead Turnpike Rte. 24, Nassau Co., to Mt. Vernon Contr. Corp., Mt. Vernon. **$698,339. Bids 8/21.** CD 8/23—ENR 8/29, under LB.

STREETS AND ROADS (Contracts Awarded, Cont'd.)

†**Oregon**—Pub. Rds. Admin., Bedell Bldg., Portland, constructing 4.5 mi. Box Canyon timber access road, Lane Co., to A. W. Elliott, Dexter Horton Bldg., 2 and Cherry Sts., Seattle 4, Wash. **$155,762.** Bids 9/4.

South Dakota—State Hy. Comn., Pierre, imprv. 8.068 mi. hy. F188 (15), McCook Co., to Dave Gustafson & Co. Inc., 500 E. 6 St., Sioux Falls, **$81,192***11.011 mi. F188 (17) Miner Co., to S. E. Gustafson Const. Co., 1019 S. 2 St., Sioux Falls, **$83,542***10.459 mi. SN FA 458 (2), Walworth Co., to M. R. Latimer, W. 7 Ave. and Navajo Sts., Denver, Colo., **$127,273.** Grand total, $292,007. Bids 8/13. CD 8/2

Utah—State Rd. Comn., State Capitol, Salt Lake City, road mixed bituminous surfacing 12.273 mi. FAP F-217 (5) between New Castle and Modena Iron Co., to Floyd S. Whiting, Murray, **$158,503,** est. $166,158. Bids 9/13; 8.265 mi. earth graded roadway, incl. concrete bridge on Secondary State Hy. between Cache-Boxelder county line and Wellsville, Cache Co., to Parsons & Fife Constr. Co., Brigham City, and L. T. Johnson, Ogden, **$311,078,** est. $360,354. Bids 9/9. R. W. McLeese, State Capitol, engr.

EARTHWORK, WATERWAYS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 4

†**California** — U. S. Eng., Wright Bldg., Sacramento, bank protection at 17 sites along Sacramento River, near Miller Slough and Steamboat Slough, Spec. 1255.

LOW BIDDERS

Ia., Marksville—Parish Police Jury, Marksville, Sept. 18, 777,500 cu. yd. earth excav., from W. R. Aldrich & Co., Kalurah Universal Gardens, Baton Rouge. **$94,855.** CD 8/29—ENR 9/5.

†**Washington** — Bureau Reclamation, Dpt. Interior, Customhouse, Denver 2, Colo., 360,-000 blasting caps for Columbia Basin Proj., from Atlas Powder Co., Vance Bldg., 3 and Union Sts., Seattle, Zone 1. **$52,080.**

†**Wyoming** — Bureau Reclamation, Court House, Denver, Colo., first of cement for starting stages of constr. Kortes Dam and power plant, 56,000 bbl., from Colorado Portland Cement Co., Denver National Bank Bldg., Denver. **$158,828.** CD 9/12/44—ENR 9/21/44.

CONTRACTS AWARDED

Wash., Tacoma—Port of Tacoma, Transit Shed 1, Pier 2, Sept. 17, dredging Sitcum waterway, Pier 1 exten. and filling quadrangle to General Constr. Co., 3840 Iowa St., Seattle. **$284,600.** Bids 917. CD 9/4.

AIRPORTS & AIRBASES

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 8

†**Wyo., Cheyenne** — INSTRUMENT LANDING SYSTEM, etc.—Civil Aeronautics Admin., 4 St. and Constitution Ave. N.W., Wash. 25, D. C., instrument landing sys., approach light lane, Cheyenne Municipal Airport, Pro. SP-47-60.

CONTRACTS AWARDED

★**Calif., San Bruno**—HANGARS, etc.—United Air Lines, Post and Powell Sts., San Francisco, steel, rein.-con. B-29 hangars, etc. and rein.-con. steel, maintenance base, over-haul base, flight research center, shops, offices, etc., to Austin Co., 618 Grand Ave., Oakland. **$600,000** and **$1,750,000,** respectively. CD 4/25—ENR 5/16, under Commercial Bldgs.

W. Va., Wheeling — HANGAR — Wheeling Seaplane Base, Inc., P.O. Box 341, 1 story, 100x100 ft., brick, concrete block, steel hangar, to Edward Silby, Elm St., Martins Ferry, O. Est. **$65,000.** Floyd T. Smith, W. 42 St., Shadyside, O., archt. CD 7/23—ENR 8/1, under Unclassified.

AMERICANS ABROAD

India, Delhi—Delhi Cloth & General Mills Co., Ltd., Delhi, design and construction chlorine plant, to H. K. Ferguson Co., Export Div., 40 Rector St., New York City, N. Y., U. S. A.

PUBLIC BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 3

†**N. J., Boonton**—**Federal Wks. Agency, 18 and F Sts., N. W., Wash., 25, D. C.,** altering and repairing Post Office.

Bids Asked October 10

Mo., Marshall—City, c/o Clerk, power plant imprvs. $400,000. Black & Veatch, 4706 Bway., Kansas City, Mo., engrs. CD 9/10—ENR 9/12.

†**Nev., Ely**—Commerce Dpt., Weather Bureau, 24 and M Sts., N. W., Zone 25, D. C., 2 temporary living quarters bldg., Yelland Field, Inv. 55-WB-47.

Bids Asked October 11

Ia., State Center—City, E. Christoffersen, clk., light and power plant imprvs., Sect. 1, diesel engine generating units with auxiliaries; Sect. 2, electrical work, generator-exciter panel, feeder panel, voltage regulator, wiring, etc. A. S. Harrington, P. O. Box 451, Omaha, Neb., engrs.

Bids Asked October 14

†**N. H., Portsmouth**—Yards & Docks Annex, Navy Dpt., Arlington, Va., imprv. heating sys., Bldgs. H-3, H-4, H-8, Spec. 18119. Plans deposit $10.

Bids Asked October 15

Ga., Dahlonega — Bd. Regents University Sys. of Georgia, Atlanta, 3 story, brick, concrete, steel science bldg., North Georgia College. $240,000. Plans deposit $25. Tucker & Howell, Rhodes Haverty Bldg., Atlanta, archts. CD 9/5—ENR 9/19.

Bids Asked October 16

†**Wash., Longview** — Bonneville Power Admin., P. O. Box 3537, Portland, Ore., control and oil house. Inv. 3665.

LOW BIDDERS

Ala., Auburn—Alabama Polytechnic Institute, did not award contract for dormitory as reported in Construction Report Section preceding this. **(Correction — status of project.)** CD 9/23—ENR 9/26, under CA.

†**Mo., Jefferson Barracks (St. Louis, 23, P. O.)**—Veterans Admin., c/o Lee D. Mork, dist. dir., U. S. Custom House, 8 and Olive Sts., St. Louis, Zone 1, Sept. 13, brick, concrete Laundry Bldg. 6, alterations, addns., from Lecoutour Constr. Co., 4903 Delmar Blvd., St. Louis, Zone 8. **$60,300.** CD 7/24—ENR 8/8.

★**Tex., Houston** — University of Houston, 4901 St. Bernard St., rejected bids August 21, 5 dormitories **$2,500,000.** A. C. Finn, Bankers Mtg. Bldg., consult. archt. CD 8/12—ENR 8/15.

CONTRACTS AWARDED

D. C., Wash. — District Comrs., District Bldg., Richardson School, 53 and Blaine Sts. N. W., to J. D. Hedin Constr. Co., 820 Michigan Ave. N.E. **$502,220.** Bids 9/6, awarded 9/18. CD 9/10—ENR 9/12, under LB.

Fla., Tampa—City, c/o mayor & FPHA, converting barracks at Drew Field into apartments for veterans, to Paul Smith Constr. Co., 310 N. Rome Ave. **$400,000.** CD 6/11—ENR 7/25.

Ont., Toronto—Dpt. P. Wks., Ottawa, Ont., city delivery bldg., Fleet and Bay Sts., to H. A. Wickett Co., Ltd., 156 Front St. E. **$890,000.** C. B. Dolphin, 415 Eastern Ave., archt. CD 7/26—ENR 8/1.

COMMERCIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 2

N. Y., Flushing—Parson Realty Co.., 35-06 Parsons Bldg., hospital addns. $205,000. Extended date. B. Braunstein, 163-18 Jamaica Ave., Jamaica, archt. CD 9/19—ENR 9/26.

Bids Asked October 16

Tex., Midland—Midland Office Bldg., Inc., c/o R. L. Wood, pres., 7 or 8 story, masonry, concrete office bldg. Plans deposit $100. Wyatt C. Hedrick, 1005 1st National Bank Bldg., Fort Worth, archt.

Bids Asked October 17

Ala., Birmingham—Catholic Diocese, c/o Bishop T. J. Toolen, Lafayette Ave., Mobile, catholic high school. $350,000. C. H. McCauley, Jackson Bldg., archt. CD 5/14—ENR 5/30.

La., Monroe—Sisters of St. Francis, Monroe, 2 and 3 story, 53x400 ft. and 53x120 ft., rein.-con., brick, stone home for aged. H. R. Slaby, 2750 N. Teutonia Ave., Milwaukee, archt. CD 9/18—ENR 9/26.

CONTRACTS AWARDED

Calif., Millbrae — Schultz Constr. Co., 1 Hillcrest Blvd., 70 residences in Greenbrae Tract, own forces. **$350,000.**

Mass., Andover—Henderson & Beal, Inc., 209 Washington St., Boston, 40 unit single frame houses. Owner builds. **$360,000.** W. N. Jacobs & Associates, 31 St. James Ave., Boston, archts.

Mass., West Springfield—Allen L. Saiardi, 180 Poplar St., 30 two story frame homes, to E. A. Parent, 212 Kings Hy. Est. **$270,000.** Raymond Parent, 83 Chapel St., Aldenville, archt.

Mo., St. Louis County—Continental Development Co., 801 Chestnut St., St. Louis, Zone 1, 33 one story, 26x34 ft., brick dwellings, concrete fdns., etc., 7500 block Melrose Ave., to G. S. Homes, Inc., 8735 N. Bway., St. Louis, Zone 15. Est. over **$210,000.** Saum Architects, 719 Chestnut St., St. Louis, Zone 1, archts.

N. C., Gastonia—Gaston Builders Supply Co., Gastonia, 50 houses near Wilkinson Blvd., own forces. **$225,000.**

INDUSTRIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 2

Conn., Ansonia — FOUNDRY, etc. — Farrel-Birmingham Co., 30 Main St., brick, steel foundry, factory addn., Main St. Over $55,-000. Westcott & Mapes, Inc., 109 Church St., New Haven, engr. CD 9/19—ENR 9/26.

Bids Asked October 4

Tex., Magnolia—LUMBER MILL—Grogan-Cochran Lumber Co., Magnolia, reconstructing lumber mill, incl. 4 steam drying kilns. $125,-000.

Que., Drummondville — PLANT — Dennison Mfg. Co. of Canada, Ltd., St. Georges St., 1 story, 90x144 ft. concrete, steel, brick, plant addn. About $60,000. C. L. Labranche, P.O. Box 396, archt.

SOON LETS CONTRACT

Calif., San Jose—FACTORY, etc.—Food Machinery Corp., 333 W. Julian St., soon lets contract 1 story, 300x600 ft., steel factory and administration bldg. Est. over $55,000. K. Theill, 580 Market St., San Francisco, engr. CD 9/20—ENR 9/26.

Mo., North Kansas City—WAREHOUSE—A. M. Castle & Co., 1132 W. Blackhawk St., Chicago, Ill., soon lets contract, warehouse, 10 and Burlington St. $236,000. Shaw & Murphy, 80 E. Jackson St., Chicago, Ill., archts.

LOW BIDDERS

N. Y., New Rochelle—LABORATORY, etc.—Schwarz Laboratories, 202 E. 44 St., New York 17, project abandoned, chemical laboratory and storage bldg. CD 8/12—ENR 8/15.

★**O., Brookpark**—PLANT—General Motors Corp., Chevrolet Motors Div., M. E. Coyle, genl. mgr., General Motors Bldg., Detroit, Mich., project cancelled brick, steel, concrete automobile plant between Hummel and Engle Rds. **$3,000,000.** CD 6/28—ENR 7/4, under CA.

★**O., Parma**—ASSEMBLY PLANT—General Motors Corp., Chevrolet Motors Div., General Motors Bldg., Detroit, Mich., projected cancelled, brick, steel, concrete assembly plant. **$5,000,000.** CD 6/28—ENR 7/4, under CA.

Tex., Cost—PLANT—Guadalupe Valley Refrigeration Co-operative, Inc., Gonzales, freezer, or refrigeration locker plant, force account. Ext. $57,000. Bids 9/4 rejected. CD 9/10—ENR 9/12, under LB.

CONTRACTS AWARDED

Ark., El Dorado—PLANT UNITS—Lion Oil Co., El Dorado, three 45 day ammounia-oxidation units for production of nitric acid. Owner builds. Approx. **$750,000.**

Calif., San Francisco—PLANT—A. H. Stein, c/o contractor, steel, rein.-con. plant addn., to Mills Constr. Co., 605 Market St. Est. over **$55,000.** H. Rosenthal, 617 Montgomery St., engr.

Conn., New Britain—FACTORY—New Britain Machine Co., 140 Chestnut St., 1 story, brick, steel, factory addn., South St. plant, to Hasson & Downes, 55 W. Main St. **$137,-955.**

Conn., Shelton — MILL—Shelton Hosiery Mills, Inc., Shelton Ave., 2 story, bsmnt., 100x150 ft. hosiery textile mill, to Mott-Mohr Constr. Co., 440 Elm St., New Haven. **$137,000.** Bids 9/6. CD 5/9—ENR 5/30.

Fla., Miami—PLANT—Florida Power & Light Co., Ingraham Bldg., generator plant addn., to Ebasco Services, Inc., 2 Rector St., New York, N. Y. Est. **$530,000.** CD 9/9—ENR 9/19.

Ga., Columbus—PLANT—Columbus Iron Works, Front Ave., concrete, steel mfg. plant, to Pound Murphey Constr. Co., Hill Bldg. **$90,000.**

Mass., Cambridge—FACTORY—New England Confectionery Co., 254 Mass Ave., altering factory, Massachusetts Ave., to W. F. Cannon Co., 342 Newbury St., Boston. Est. **$90,000.**

Mass., Dorchester—PLANT—Walter Baker & Co. Inc., 1197 Washington St., plant addn., storage facilities, stair towers, etc. Owner builds. **$135,000.** CD 6/10—ENR 6/27.

Mass., Erving—PLANT—F. W. Mears Heel Co., Main St., plant addn., rein.-con. for 2 kilns, to H. P. Cummings Constr. Co., 14 Prospect St., Ware. Est. **$60,000.**

Mass., Springfield—WAREHOUSE—Country Club Soda Co. Inc., 42 Emery St., 1 story, brick warehouse, to Capuano Constr. Co., 25 Harrison St. Est. **$55,000.** D. R. Baribault, 166 Buckingham St., archt. CD 6/5—ENR 6/20.

INDUSTRIAL BLDGS. (Contracts Awarded, Cont'd.)

Mass., Watertown—FACTORY—Hood Rubber Co., 98 Nichols St., 1 story, 90x100 ft., brick, steel, concrete plant addn., Nichols Ave. Owner builds. **$60,000.**

Mo., Kansas City—BOILER ROOM—Kansas City Power & Light Co., c/o R. A. Graves, 1330 Baltimore St., altering boiler room, installing 375,000 lb. boiler, day labor. **$150,000.**

Mo., St. Louis — WAREHOUSE — Powell Bros. Truck Lines, 1730 N. 11 St., Zone 6, warehouse, to Industrial Constr. Co., Continental Bldg., 3617 Olive St., Zone 8, **$91,800.** Tarling & Siebke, 2837 N. Grand Blvd., archts.

Utah, Logan—PLANT—Herald Journal, Logan, newspaper plant, to Alton M. Berntson, Logan, **$50,000.** Slack W. Winburn, 619 Beason Bldg., Salt Lake City, archt.

Vt., Bennington — FACTORY — Cushman Mfg. Co., Bennington, 3 story, 50x65 ft., brick factory ,to Kingsbury Constr. Co., 202 Main St., Hudson Falls, N. Y. Est. **$60,000.** R. T. Westbrook, Troy, N. Y., archt.

Alta., Lethbridge — ELEVATOR — Ellison Milling & Elevator Co. Ltd., 2 Ave. S., elevator addn., 10 cement bins and 5 diamond bins, to Dominion Constr. Co. Ltd., 150 W. 1 Ave., Vancouver, about **$75,000.** CD 9/1/44—ENR 9/24/44.

B. C., Vancouver—PLANT—Richmond Milk Producers Assn., 1512 E. Hastings St., 2 story, frame, stucco plant, to Bennett & White Const. Co., Ltd., 510 W., Hastings St., **$100,000.** Kayll & Noppe, 837 W. Hastings St., archt.

Man., Winnipeg—PLANT—Dominion Bag Co., 149 Portage Ave., 2 story, bsmnt., 66x139 ft. rein.-con., brick plant addn., to MacDonald Const. Co. Ltd., 600 W. Great Permanent Bldg. About **$85,000.**

N. B., Moncton—FOUNDRY—Commercial Equipment Co. Ltd., St. John, plant, Foundry St., to J. S. Roy, 62 King St., Est. **$60,000.**

N. B., Moncton—PLANT—Swift Canadian Co. Ltd., Albert St., plant exten., to Parsons Const. Co. Ltd., Imperial Block, Main St., about **$60,000.** CD 9/26/45—ENR 10/4/45.

N. S., Halifax—STORAGE SHED—Brookfield Const. Co. Ltd., 169 Hollis St., 2 story 32x150 ft., rein.-con. storage shed, Owner builds. About **$60,000.**

Ont., Aurora—PLANT—Callis Leather Co., Aurora, 3 story, brick, concrete plant addn., to Aurora Bldg. Co., Ltd., Aurora, about **$80,000.** Fleury & Arthur, 85 Bedford Rd., Toronto, archts.

Ont., Belleville—PLANT—Canada Packers Ltd., 2200 St. Clair Ave. W., Toronto, plant addn., to Passmore & Hammond Constr. Co. Ltd., Stoney Creek, Est. **$60,000.**

Ont., Finch — PLANT — Canada Packers, Ltd., 2200 St. Clair Ave. W., Toronto, 1 story, cinder block, stucco poultry bldg., to Dodge Constr. Co., Cardinal, about **$55,000.** CD 7/17—ENR 7/26.

Ont., Hamilton—PLANT—Singer Sewing Machine Co., Ltd., 3487 Park Ave., Montreal, Que., structure on King St. E., to W. H. Cooper Constr. Co. Ltd., Medical Arts Bldg., about **$150,000.** N. A. Armstrong, 19 Melinda St., Toronto, archt.

Ont., Kingston — TERMINAL — Direct-Winters Transport, 235 Queens Quay, Toronto, 1 story, 60x132 ft. masonry transport terminal, Rideau and Montreal Sts., to T. Bartlette, Belleville, about **$55,000.** J. C. Newlands, 296 Bagot St., archt.

Ont., London—GARAGE and SHOWROOM—Continential Motors, Ltd., W. D. Glintz, 293 Wolfe St., garage and showroom, York St. to McKay Cocker Const. Ltd., 284 Dundas St., about **$55,000.** W. G. Murray, 953 Waitland St., archt.

Ont., Seaside—SHOWROOM and GARAGE—E. J. Turgeon, 64 Bessborough Dr., 1 story, bsmnt., 50x100 ft. concrete block, brick, steel showroom and garage, to G. T. Parmenter, 1465 Yonge St., Toronto, about **$65,000.** Barnett & Rieder, 300 Bessborough Dr., archt.

Ont., Smiths Falls—WAREHOUSE—Frost & Wood Co. Ltd., Smiths Falls, warehouse, to J. M. Sulphur Co. Ltd., Renfrew, **$50,000.**

Ont., Thorold—FACTORY—Canadian Ohio Brass Co., Thorold Rd., Stamford Twp., 1 story, brick factory, to Smith Bros. Constr. Co. Ltd., Ellen Ave., Niagara Falls, about **$65,000.**

Ont., Toronto—FACTORY—Iron Fireman Mfg. Co. of Canada, 602 W. King St., factory, to R. J. Hibbs Constr. Co. Ltd., 15 Trent Ave. Est. **$90,000.** J. H. W. Bradfield, 12 E. Adelaide St., archt.

Ont., Toronto—FACTORY—Kerr Bros., Ltd., 54 Walseley St., 1 story 180x200 ft. brick, steel factory in Mt. Dennis, to Milne & Nicholls, Ltd., 57 Bloor St. W., about **$75,000.** CD 2/14—ENR 3/7.

Ont., Toronto—GARAGE—McBrides Garage Co. Ltd., 133 Pears St., 1 story 90x200 ft., brick, steel garage, 142 Pears St., to R. G. Kirby & Sons, Ltd., 539 Yonge St., about **$90,000.** N. A. Armstrong, 19 Melinda St., archt. CD 8/29 — ENR 9/12.

Ont., Toronto—PLANT—Hugh C. MacLean Publications Ltd., 347 Adelaide St., W., 7 story, bsmnt., 80x125 ft. rein.-con., brick plant addn., to Martin Builders Ltd., 28 Harcourt St., about **$300,000.** W. S. Hall, 53 Gerrard St. W., engr. CD 7/17—ENR 8/1.

Ont., Toronto—PLANT—Planters Nut & Chocolate Co., Ltd., 71 Florence St., 2 story, 70 x 118 ft., rein.-con., brick, shipping and milling unit, to Gratton Const. Co., Ltd., 486 Clinton St., about **$65,000.** J. H. Haffa, 96 Bloor St., archt. G. L. Wallace, 46 Bloor St. W., engr. CD 7/22—ENR 8/1.

Ont., Toronto—WAREHOUSE—Steel Distributors Ltd., 137 E. Front St., warehouse, to A. W. Robertson Co. Ltd., 57 W. Bloor St. Est. **$100,000.** CD 8/29—ENR 9/12.

Ont., Weston—FACTORY—Egry Continuous Forms, Ltd., R. Crouch, mgr., Toronto, 1209 King St. W., 1 story, 90x216 ft., rein.-con. factory, Main St., to Connor Bros., 170 Fairview Ave., about **$75,000.** Hawks & Irwin, 25 Old Mill Rd., Toronto, archt.

Ont., Woodstock—PLANT—Truck Engineering Ltd., 165 Wellington St. S., J. B. King, pres., 60x225 ft., steel frame, concrete curtain wall steel sash plant exten. to James A. Vance, 288 Light St., about **$100,000.**

Que., Berthierville—PLANT—Melchers Distilleries, Ltd., Berthierville, 1 story, 90x130 ft. concrete, brick plant exten. (barrel warehouse) to Douglas Brenner Const. Ltd., 2049 McGill College Ave., Montreal. Approx. **$150,000.** CD 1/31—ENR 2/21.

Que., Drummondville—PRINTING PLANT—LaParole Ltd., 391 Heriot St., printing plant, to J. P. Desrochers Co. Ltd., 55 Strathearn St., Montreal. Est. **$95,000.** L. P. Lahranche, Drummondsville, archt.

Que., Nicolet—PLANT—J. J. Joubet, Ltd., 4141 St. Andre St., Montreal, 1 and 2 story, 100x155 ft., steel, rein.-con., brick milk plant, to G. A. Gruninger & Sons, 1001 Laviolette St., Three Rivers, about **$180,000.**

Que., Malartic—SHAFT SINKING—Norbenite Malartic Mines Ltd., 330 Bay St., Toronto, shaft sinking, workers dwellings, compressor house, head frame, etc., to Grant Mills & Co. Ltd., 5314 York St., Montreal. Est. **$90,000.**

Que., Montreal—PLANT—Canadian Outfitting Co. Ltd., 3692 St. Lawrence Blvd., new bldg., to G. Archambault Ltd., 726 Atwater Ave. Est. **$175,000.** C. D. Goodman, 1502 W. Ste. Catherine St., archt.

Que., Montreal—PLANT—J. Christian & Co. Ltd., 327 Christian Pl., bottling plant, to J. P. Desrochers & Co., Ltd., 59 Strathen St. **$160,000.** P. Lemieux, 760 Victoria Sq., archt. CD 3/25.

Que., Quebec City—PLANT—International Fertilizers, Ltd., 71 St. Peter St., fertilizer plant, Anse au Foulon, own forces. About **$500,000.** J. Ruddick, 229 St. Joseph St., archt.

Que., St. Laurent — PLANT — Crelinstein Fruit Co., 1665 Trudel St., Montreal, 1½ story, 50 x 90 ft., steel, concrete block repacking plant, concrete fdn., to Leon M. Adler, 5375 de Vincy Ave., Montreal, about **$55,000.** W. G. de Belle, 4933 Glencairn Ave., Montreal, archt. H. Jasen, 4804 Cote des Neiges Rd., Montreal, engr.

Que., Valleyfield — FACTORY — Canadian Schenley Ltd., Valleyfield, remodeling factory and boiler house constr., to Foundation Co. of Canada Ltd., 1538 W. Sherbroke St., Montreal. Est. **$75,000.** Shennan, Canada Cement Bldg., archt.

Sask., Regina — PLANT — Saskatchewan Wheat Producers of Regina, alterations, incl. new elevator, floors, changing fronts, on Victoria and Albert Sts., etc., to Hipperson Constr. Co. Ltd., Lloyd Bldg., Regina, about **$120,000.**

UNCLASSIFIED

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked October 15

Louisiana—TRANSMISSION LINES—Beauregard Electric Co-operative, De Ridder, 225 mi. rural electric power transmission lines, Beauregard Co. $200,000. Baker Eng. Co., 305 Moore Bldg., San Antonio, Tex., engrs.

LOW BIDDERS

N. Y., Brooklyn—STATION IMPRVS.—Bd. Transportation, 250 Hudson St., New York, Zone 13, Sept. 6, addnl. stairs and passageway to Saratoga Ave. Station, Livonia Ave. Line, from Grifeth Constr. Corp., 401 Broadway, New York, Zone 13. **$40,900.**

†Oregon — TRANSMISSION LINE — Bonneville Power Admin., P.O. Box 3537, Portland, rejected bids July 1 clearing 100 ft. right-of-way and removing debris along proposed 15 mi. route of St. Johns-Fores Grove transmission lines, Inv. 3738. L. B. **$28,000.** CD 6/20.

CONTRACTS AWARDED

Calif., Walnut Creek—SWIMMING POOL—Sun Valley Swimming & Tennis Club, A. Kallunki, pres., City Club Hotel, 1428 Alice St., Oakland, 60x165 ft. swimming pool, recreation center, 3 tennis courts, clubhouse, to E. P. Seemans, Oak Rd. Est. **$150,000.**

★**Ill., Tuscola**—OIL PIPELINE—Panhandle Eastern Pipe Line Co., Box 148, Stinnett, 26 mi. 26 in. loop crude oil pipeline, to Midwestern Constr., Sunray Tex. Approx. **$1,100,000.** CD 4/25—ENR 5/16.

Mass., New Bedford—WHARF and PIERS—City, Municipal Bldg., repairing piers, wharf exten., Front St., to F. C. Taylor, Fairhaven. **$102,000.** CD 7/18.

Mich., Sawyer—PARK GRADING, etc.—State, State Administrative Bd., Lansing, grading, concrete paving areas in Warren Dunes State Park, to P. Vander Veen & Sons, 2020 Newark St., S.E., Grand Rapids. $207,772.

Mo., St. Louis—GAS STORAGE TANKS—Laclede Gas Light Co., 1017 Olive St., Zone 1, 4 steel propane gas storage tanks, 151 Rutger St., 3 at 322 Catalan St., own forces. $55,000.

N. J., Atlantic City—PASSAGEWAY—Atlantic City Planning Bd., City Hall, passageway, Tennessee Ave. to beach, to Ferry Constr. Co., 1325 Boardwalk. **$60,690.** Bids 8/22, awarded 9/5. CD 8/17.

Texas—PIPELINE—Atlantic Pipe Line Co., M. Esperson Bldg., Houston, connecting oil products pipeline from refinery to Port Neches, Jefferson Co., force account. Approx. **$40,000.**

Tex., Port Neches—NIGHT LIGHTING—Port Neches Independent School Dist., night lighting sys. for athletic field to Gulf States Utilities Co., Port Neches. Approx. **$40,000.**

Washington—TRANSMISSION LINE—Orcas Power & Light Co., Eastsound, 69 mi. electric transmission line, San Juan Co., to Montgomery Elec. Co., 121 S. Lewis Ave., Montgomery, Ala., **$145,317.** W. S. McCrea, Jr., 241 Perkins Bldg., Tacoma, engr.

PROPOSED PROJECTS

Including class of projects previously listed as *postwar*

COMMERCIAL BUILDINGS

PROPOSED WORK

★**Fla., St. Petersburg**—American Veterans of World War II, 1126 Central Ave., 500 houses for veterans. **$3,000,000.** Financing provided.

Md., Baltimore — Keystone Realty Co., 215 N. Calvart St., 100 residences. **$700,000.**

Md., Baltimore—Service Realty Co., 211 E. Fayette St., plans 25% completed by D. Hamson, 421 St. Paul Pl., 1 story, bsmnt., 450x450 ft., concrete, brick, cinder block, steel shopping center, containing 10 stores, Park Heights Ave. and Cold Spring Lane. **$300,000.** Financing provided.

★**Mich., Flint**—Hurley Hospital, Flint, plans under way two 11 story wings, main bldg., health clinic, nurses home addn., enlarging power house. **$1,000,000.** CD 11/12—ENR 11/22.

★**Mo., University City (St. Louis, 5, P.O.)**—Doran, Shank, Lee & Yeager, (owners and archts.) 1408 Locust St., St. Louis, Zone 3, making plans seven 2 story, bsmnt., 168 unit brick, rein.-con. apartments, on 7 acre tract, Olive and Midland Blvds. **$1,750,000.** Legal obstacles to be overcome.

★**Nev., Reno**—L. Root, 330 W. Pueblo St., hotel and airfield. **$1,000,000.**

★**N. Y., New York**—Hebrew Home for Aged, 114 E. 105 St., Zone 29, plans by W. L. Rouse, 341 E. 18 St., Zone 3, home for aged and hospital, Sedgwick Ave. and Stevenson Pl. **$1,000,000.**

★**N. Y., Rego Park**—Syndicate, c/o Shampan & Shampan, archts., 26 Court St., Brooklyn, Zone 2, plans completed one hundred twenty 1-family houses, Penelope Ave., 76 St., 75 Place, 75 St. and Juniper Rd. **$1,000,000.** Financing provided.

★**O., Shaker Heights**—Keyes-Treuhaft Co., 10514 Shaker Blvd., Cleveland, plans by Cutting & Ciresi, 4900 Euclid Ave., Cleveland, 5 story, 230x510 ft., brick, steel, concrete 155 suite apartment house, 155 car garage, Linnfield and S. Moreland Blvds. **$1,250,000.**

Ore., Myrtle Creek—Fir Mfg. Co., Myrtle Creek, 74 houses for employees, **$454,000.**

★**Ore., Portland**—Western Homes, Title & Trust Bldg., plans completed by Universal Planning Service, Builders Exchange Bldg., 400 homes and 50 apartment units, **$3,000,000.** Financing provided.

★**Tex., Highland Park**—Highland Park Hospital, Inc., Dr. Frank Austin, 5460 Preston Rd., Dallas, 12 story, bsmnt. 173 x 190 ft. hospital, air-conditioning. **$2,000,000.** Financing provided.

★**Tex., Waco**—Masonic Lodges of Texas plans by R. Leon White, ch. archt., State University, Austin, Thos. Broad, Burt Bldg., Dallas, and J. W. Cocke, Jr., Waco, assoc. archts., temple. **$1,000,000.** Financing not provided. CD 1/31—ENR 2/14.

★**Wash., Seattle**—Children's Orthopedic Hospital, 100 Crockett St., Zone 9, plans by Young & Richardson, Central Bldg., Zone 4, 1 and 2 story hospital. **$2,000,000.** Financing provided. CD 7/13/45—ENR 7/26/45.

Proposal Advertisements see pp. 25 to 27

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: October 14 (267)

Construction & Sinking Fascine Mattresses

Sealed bids for furnishing all labor and material and performing all work for the construction and sinking of fascine mattresses 170' x 400' in the Atchafalaya River under Bridge 610.8 of the New Orleans, Texas & Mexico Railway at Krotz Springs, St. Landry Parish, Louisiana, will be received by C. S. Kirkpatrick, Chief Engineer of the New Orleans, Texas & Mexico Railway, 204 Union Station, Houston, Texas, until 10 A.M. Central Standard Time, October 15, 1946, and then publicly opened and read. The contemplated construction requires 68,000 square feet of fascine mattress, 1500 tons of stone, and six "Bignell" piles 15 inches square and 15 feet long. Prospective bidders must have license to contract in the State of Louisiana and show evidence of same before receiving information to bid. Further information upon application to C. S. Kirkpatrick, Chief Engineer. September 15, 16, 17 and 18. October 13 and 14.

Bids: Oct. 10 (268)

State Highway Work

STATE OF NEW JERSEY
STATE HIGHWAY DEPARTMENT
TRENTON

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commissioner for:

ROUTE 100, SECTIONS 1A and 2A
Construction of Route 100, Sections 1A and 2A, from Gordon Avenue to Route 4 (Grading), in Woodbridge Township, Middlesex County, length 1.518 miles. Federal Aid Project No. UI-184 (2).

Estimated: 646,642 cu. yds. Roadway Excavation-Earth
5,000 cu. yds. Wet Excavation
723,499 cu. yds. Borrow Excavation
4,500 sq. yds. 2" Pavement, Type A or T
4,500 sq. yds. 3" Modified Pen. Macadam Intermediate Course
4,500 sq. yds. 8" Gravel Base Course

Bids for the above will be received at the office of the State Highway Department, Room 102, State House Annex, Trenton, N. J., on Thursday, October 10, 1946, at eleven o'clock (11:00 A.M. EASTERN STANDARD TIME), and will be opened and read immediately thereafter.

The receipt and opening of bids is subject to the proper qualification of the bidder in accordance with the provisions of the prequalification law and the regulations adopted by the State Highway Commissioner. Bidders must also submit a revised financial statement and statement of plant and equipment with their bid.

NOTE: The proposed project is a "Federal Aid Project" authorized by the provisions of Title 23 of the Revised Statutes of New Jersey and supplements, and by Sections 2, 3 and 4, P. L. 521, 78th Congress, and is to be performed in accordance with the special provisions and requirements of the Federal Works Agency, Public Roads Administration, as outlined in the specifications, which provisions require that labor be employed from lists furnished by the U. S. Employment Service, Maple and Fayette Streets, Perth Amboy, N. J. The attention of bidders is directed to the special provisions covering subletting or assigning the contract and to the use of domestic materials. The minimum wage paid to all unskilled labor employed on this contract shall be 65¢ per hour. The minimum wage paid to all intermediate grade of labor employed on this contract shall be 75¢ per hour. The minimum wage paid to all skilled labor employed on this contract shall be $1.25 per hour.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and may be inspected by prospective bidders during office hours. Plans will be furnished on a deposit of Ten Dollars ($10.00) for each set of plans upon application to A. Lee Grover, Chief Clerk, State Highway Department, Room 102, State House Annex, Trenton, N. J. Bids must be made upon the standard proposal forms in the manner designated in the standard State Highway specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten percent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and must be delivered at the above place on or before the hour named. Copies of the standard proposal forms and special addressed envelopes will be furnished on application. Bids not enclosed in sealed special addressed envelopes will be considered informal and will not be opened. The right is reserved to reject any or all bids.

Signed: Spencer Miller, Jr.
State Highway Commissioner

Bids: Oct. 22 (270)

Construction Improvements

Sealed proposals will be received by the City of Albany, Georgia, at the office of the City Manager until 11 A.M., E.S.T., October 22, 1946, for constructing improvements to Combined Sewerage System, at which time and place they will be publicly opened and read.

The project consists of approximately 8,300 lin. ft. of 72" sewer, approximately 2,300 lin. ft. of 54" and 60" sewer, approximately 11,400 lin. ft. of 24" to 36" sewer; approximately 12,900 lin. ft. of 12" to 21" sewer, two pumping stations and appurtenances.

Plans, specifications and contract documents are open to public inspection at the office of the City Manager, Albany, Georgia, or may be obtained from Wiedeman and Singleton, Engineers, at 1303 Citizens and Southern National Bank Building, Atlanta, Georgia, upon deposit of twenty-five dollars ($25.00). The full amount of the deposit for one set of documents will be returned to each actual bidder and all other deposits will be refunded less ten dollars ($10.00) upon return of all documents in good condition within thirty (30) days after date of opening of bids.

Bids must be accompanied by a certified check or bid bond in an amount equal to at least five (5) per cent of the amount bid.

The Owner reserves the right to reject any or all bids and to waive informalities.

THE CITY OF ALBANY, GEORGIA.
By: C. Q. Wright
City Manager

Bids: Oct. 9 (269)

Mississippi River Bridge

At
Memphis, Tennessee—Crittenden County, Arkansas
Arkansas Approach
Substructure
And
Reinforced Concrete Trestle
Project No. SN-A-SN-U-FAP 607-A (2),
Part 2
Tennessee—Arkansas

Sealed duplicate proposals will be received by the Department of Highways and Public Works of Tennessee and the Arkansas State Highway Commission, jointly, at Room 107 Courthouse at
MEMPHIS, TENNESSEE,
until 10:00 a.m. Central Standard Time on
October 9, 1946
for the construction of Tennessee—Arkansas Project No. SN-A-SN-U-FAP 607-A (2), Part 2, consisting of the ten approach piers and the reinforced concrete trestle of the Arkansas approach to a
HIGHWAY BRIDGE
over the Mississippi River, between Memphis, Tennessee, and Crittenden County, Arkansas, and will be publicly opened and read immediately thereafter in the City Council Chamber in the Courthouse, Memphis, Tennessee.

The work to be performed under this contract will consist principally of the construction on the Arkansas bank of ten (10) pile founded concrete piers, which will support the Arkansas Approach Superstructure, and a pile founded reinforced concrete trestle 481'-1" in length, connecting with the embankment of the Harahan Bridge approach roadway, as shown on the contract plans.

Bidders will be required to file with their bids duplicate financial, equipment and experience questionnaire forms made out in detail, which forms will be furnished with bid blanks.

A bidder's bond in duplicate in the amount of $40,000.00, payable jointly to the Department of Highways and Public Works of Tennessee and the Arkansas State Highway Commission on the forms furnished with the proposal, will be accepted by the States only from a surety or sureties qualified to do business both in Tennessee and Arkansas and holding certificates of authority from the United States Treasury Department and conforming to the limitations of the last published Treasury statement on acceptable sureties.

Plans, specifications and contract documents, together with forms, questionnaires and necessary information, are open to public inspection at the offices of the Department of Highways and Public Works of Tennessee, Nashville, Tennessee, and the Arkansas State Highway Commission, Little Rock, Arkansas, and of Modjecki and Masters, Engineers, State Street Building, Harrisburg, Pennsylvania, and at Room 107, Courthouse, Memphis, Tennessee, and may be secured from Modjeski and Masters, Engineers, State Street Building, Harrisburg, Pennsylvania, upon a deposit of $20.00 per set.

A refund of $10.00 per set will be made by Modjeski and Masters upon the return in good condition to them of the copy so obtained.

Before the execution of the contract the successful bidder will be required to be authorized to do business in and to be licensed in both the State of Tennessee and the State of Arkansas.

No bid may be withdrawn after having been deposited or filed.

The right is reserved to reject any or all bids and to waive all technicalities.

DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS OF TENNESSEE
C. W. Phillips, Commissioner
ARKANSAS STATE HIGHWAY COMMISSION
Wm. H. Sadler, Chairman

Bids: 9/9/46 (265)

Alterations to Water Tanks

VILLAGE OF BREWSTER, NEW YORK
NOTICE TO CONTRACTORS

Bids will be received by the Village of Brewster, New York on October 9, 1946, at 3:00 o'clock P.M., Eastern Standard Time for the construction of Alterations to the Water Storage Tanks.

Information may be obtained at the offices of Bowe, Albertson & Associates, Engineers, 110 William Street, New York City and at the office of the Village Clerk, at the Village office, 94 Main Street, Brewster, New York, between the hours of 10 A.M. and 4 P.M. daily except Saturdays and Sundays.

VILLAGE OF BREWSTER, NEW YORK
W. BOYNTON TOWNER
VILLAGE CLERK

Dated September 12, 1946.

Bids: Nov. 8 (273)

Extension of Date of Opening Bids

Sealed bids or proposals for furnishing materials and constructing a water treatment plant for the City of Lockland, Ohio, will be received at the office of the Director of Public Service, Lockland, Ohio, until Twelve (12:00) o'clock Noon, Eastern Standard Time, November 8, 1946, instead of Twelve (12:00) o'clock Noon, October 11, 1946, as previously advertised.

(Continued on page 28)

OFFICIAL PROPOSALS
(Continued from page 25)

Bids: Oct. 8 (263)

Electric Substations, Etc.

CONTRACT 395

SEALED BIDS will be received by the Board of Water Supply, at its offices, thirteenth floor, 120 Wall Street, New York City, until 11:00 A. M., Eastern Standard Time, on Tuesday, October 8, 1946, for Contract 395, for furnishing, testing and delivering three 2,000-Kva. substations, three 200-Kva. substations, one 150-Kva. substation, four 75-Kva. distribution transformers, control equipment, electric cables, power panelboard and safety switches for operating chambers of the Delaware aqueduct, all as set forth in the specifications.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn and made payable to the order of the Comptroller of the City of New York, in the amount of fifteen thousand dollars ($15,000.00), for the proper execution of the contract.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, requirements as to surety, etc. can be obtained at the office of the Secretary at the above address, upon application in person or by mail, by depositing the sum of five dollars ($5.00) in cash or its equivalent for each pamphlet. Within 30 days following the award of contract or rejection of bids, the full amount of such deposit will be refunded for each pamphlet submitted as a bid and a refund of four dollars ($4.00) will be made for each other pamphlet returned in acceptable condition. Arrangements will be made whereby prospective bidders desiring blueprints of the contract drawings for their own use may secure same, the cost thereof to be paid by them. For further particulars, apply at the office of the Chief Engineer at the above address.

IRVING Y. A. HUIE, President. HENRY HESTERBERG, RUFUS E. McGAHEN Commissioners, Board of Water Supply; RICHARD H. BURKE, Secretary.

Bids: October (266)

Highway Construction

STATE DEPARTMENT OF PUBLIC WORKS BUREAU OF CONTRACTS & ACCOUNTS, ALBANY, N. Y.

Sealed Proposals will be received by Henry A. Cohen, Director, Bureau of Contracts & Accounts, 14th Floor, The Governor Alfred E. Smith State Office Building, Albany, N. Y., until ten-thirty o'clock A. M., eastern standard time on Wednesday, October 2, 1946, for the construction and reconstruction of highway projects in the following counties:

County	Deposit for plans	Bid deposit	Type	Miles	Dept. estimate
CONSTRUCTION					
Dutchess	$5	$3,000	Conc. 8"; 22' Wid.	0.34	$54,000
Monroe	10	18,000	Col. Conc. 8" & Var. Thk. 2@ 24' Wid. B. M. M. Opt. Grading; Misc. Work	2.86	321,000
Westchester	20	68,000	Widening Overpass & Br.; Conc. 9" Thk. 2 @ 24'	4.11	1,145,000
CONSTRUCTION AND RECONSTRUCTION					
Ontario	20	110,000	3 Conc. Box Brs. spans 36', 29', 29'; I-Beam Br. spans 2 @ 40' ea.; Misc. Work; Graded Gravel; Conc. 9" Thk.; 24' Wid.	5.82	2,038,000
Westchester	10	45,000	5 span Deck Girder Total 456'; Conc. 9" Thk. 46' & Var.	1.01	860,000
RECONSTRUCTION					
Monroe	10	18,000	Deck Cantilever Girder, 99' span with Shore spans 2 @ 85'; Asphalt Conc. MM. Opt.; Conc. 8" Thk.; 40'–44' Wid.	0.44	330,000
Orange	10	39,000	Conc. 9" Thk. 24' & Var. Wid.; Asph. Conc. MM. Opt.	3.81	666,000
Tompkins	5	4,000	Conc. 9" Thk.; Misc. Work	0.35	71,000

Maps, plans, specifications, and estimates may be obtained at the office of the Department of Public Works, Bureau of Contracts & Accounts, Albany, N. Y., and at the office of the District Engineers in whose district the roads are located. The names and addresses of the District Engineers will be furnished on request, and may be seen at the office of the State Department of Public Works, State Office Building, Room 898, Worth & Center Streets, New York City.

The deposit for Plans and Proposal Forms for each contract containing 1 to 15 sheets is $5.00; 16 to 30 sheets, $10.00; over 30 sheets, $20.00. A refund will be made in full to bidders for return of one set, in good condition, within 30 days of award, or rejection of bids; refund for all other sets in good condition, similar period, will be 50% of deposit.

Special attention of bidders is called to "General Information for Bidders" in the proposal, specifications, and contract agreement, and to the special provisions applying to projects financed with federal funds.

Proposal for each contract must be submitted in a separate sealed envelope with the name and number of the contract plainly endorsed on the outside of the envelope. Each proposal must be accompanied by cash, draft or certified check payable to the order of "State of New York, Commissioner of Taxation & Finance" for the sum as specified in the advertisement and the proposal. The retention and disposal of the bidding check, the execution of the contract and bonds shall conform to the provisions of the Highway Law, as set forth in "Instructions to Bidders."

When optional types are permitted on contracts with federal funds, bidders must state in the space provided in the proposal the exact designation of the optional type upon which the proposal is predicated.

Minimum Wage Rate per hour for above work shall be as follows:

County	Skilled Labor	Intermediate Grade Labor	Unskilled Labor
Dutchess	$1.15	$1.15	$1.15
Monroe	1.10	1.10	1.10
Ontario	0.95	0.95	0.95
Orange	1.15	1.15	1.15
Tompkins	0.90	0.90	0.90
Westchester	1.14-2/7	1.14-2/7	1.14-2/7

UNLESS SHOWN OTHERWISE IN THE ITEMIZED PROPOSAL FOR EACH PROJECT.

The right is reserved to reject any or all bids.

CHARLES H. SELLS
SUPT. OF PUBLIC WORKS

Bids: Oct. 9 (276)

Planting Beach Grass

Sealed proposals covering Beach Protection at Westhampton, Tiana and Southampton Beaches (Planting Beach Grass) in the Town of Southampton, Suffolk County, N. Y., will be received by Henry A. Cohen, Director, Bureau of Contracts & Accounts, Department of Public Works, The Governor Alfred E. Smith State Office Building, Albany, N. Y. on behalf of the Department of Public Works, until 10:30 o'clock A. M. (Eastern Standard Time) on Wednesday, Oct. 9, 1946, when they will be publicly opened and read. The approximate amount of this project is $20,000.

Each proposal must be made upon the form and submitted in the envelope provided therefor and shall be accompanied by a certified check made payable to the State of New York, Commissioner of Taxation & Finance, of 5% of the amount of the bid as a guaranty that the bidder will enter into the contract if it be awarded to him. The title of the work must be written on the front of the envelope, sealed and delivered to Henry A. Cohen, Director, Bureau of Contracts & Accounts, The Governor Alfred E. Smith State Office Building, Albany, N. Y. The blank spaces in the proposal must be filled in, and no change shall be made in the phraseology of the proposal. Proposals that carry any omissions, erasures, alterations or additions may be rejected as informal. Successful bidder will be required to give a bond conditioned for the faithful performance of the contract and a separate bond for the payment of the laborers and material men, each bond in the sum of 100% of the amount of the contract or contracts in excess of $500. Corporations submitting proposals shall be authorized to do business in the State of New York. Drawings and specifications may be examined free of charge at the following offices:

Guy W. Pinck, Deputy Chief Engineer, The Governor Alfred E. Smith State Office Building, Albany, N. Y.

State Architect, State Office Building 80 Center Street, New York City.

J. J. Darcy, District Engineer, Montauk Highway at Little East Neck Road, Babylon, L. I., N. Y.

Drawings and specifications may be obtained from the Director, Bureau of contracts & Accounts, The Governor Alfred E. Smith State Office Building, Albany, N. Y. or J. J. Darcy, District Engineer, Montauk Highway at Little East Neck Road, Babylon, L. I., N. Y. upon deposit of $5.00 for each set.

Checks for plans and specifications shall be made payable to the State of New York.

Proposal blanks and envelopes will be furnished without charge.

CHAS. H. SELLS,
SUPT. OF PUBLIC WORKS.

Bids: Oct. 14 (275)

Water Softening Plant

NOTICE OF PURCHASE
LIME TREATMENT EQUIPMENT
HURON, SOUTH DAKOTA

Sealed proposals will be received at the Office of M. F. Walt, City Auditor, of Huron, South Dakota, until 7:30 PM (CST) on the 14th day of October 1946, for furnishing the Lime Treatment Equipment for the New Water Softening Plant for Huron, South Dakota, as listed below.

PRIMARY SEDIMENTATION TANK EQUIPMENT—*1 Required*

A mechanical clarifier collector for the Primary Sedimentation Tank of approximately 3,000 sq. ft. area, min. depth 10 ft. for max. flow of 4,200 GPM. of Raw River Water. The min. retention at 3,500 GPM. rate will be 65 minutes.

FLASHMIX TANK EQUIPMENT—*2 Required*

Each mechanical Flash Mixer for mixing Milk of Lime in max. flow of 2,100 GPM. Settled Raw Water.

FLOCCULATION TANK EQUIPMENT—*2 Required*

Each mechanical Flocculator for flocculation of precipitants for a max. flow 2,100 GPM., min. area 1100 sq. ft. and min. depth 11 ft. Min. retention at 2,100 GPM. rate will be 45 minutes.

CLARIFICATION TANK EQUIPMENT—*2 Required*

Each mechanical clarifier collector for approx. 3,000 sq. ft. and min. depth 11 ft. for a max. flow of 2,100 GPM. Min. retention at 2,100 GPM. rate will be 120 minutes.

FLOCCULATION NO. 2 EQUIPMENT—*1 Required*

A mechanical Flocculator for mixing an iron salt and flocculation of the Softened Water after recarbonization for a maximum flow of 4,200 GPM. in a Tank 14 ft. wide x 42 ft. long x 14 ft. water depth.

All bids to be submitted on forms furnished by the Engineer, which may be obtained upon request. State Law requires a five (5%) per cent certified check with bid.

E. H. Dunmire
Consulting Engineer
2774 South Street
Lincoln, Nebraska

CITY of Huron, South Dakota
Harry M. Liem, Mayor
M. F. Walt, Auditor

Bids: Oct. 14 (274)

Storm Water Pipe

NOTICE OF PURCHASE
HURON, SOUTH DAKOTA

Sealed proposals will be received at the Office of M. F. Walt, City Auditor, of Huron, South Dakota, until 7:30 P.M. (CST) on the 14th day of October 1946, for furnishing Storm Water Pipe of Vitrified Clay, Concrete or Corrugated Metal, f.o.b. Huron, South Dakota.

Approximate Requirements are:

3170 feet of 36" diam.
2336 feet of 30" diam.
7343 feet of 24" diam.
4851 feet of 18" diam.
9576 feet of 15" diam.

All bids to be submitted on forms furnished by the Engineer, which may be obtained upon request. State Law requires a five (5%) per cent certified check with bid.

E. H. Dunmire
Consulting Engineer
2774 South Street
Lincoln, Nebraska

CITY of Huron, South Dakota
Harry M. Liem, Mayor
M. F. Walt, Auditor

(Continued on page 27)

OFFICIAL PROPOSALS

(Continued from page 26)

Bids: Oct. 11 (262)

Bridge Materials

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Somerset for the furnishing of materials for repair work on the Queens Bridge No. 25 at Bound Brook, N. J.

Bids will be received for two separate contracts.

Contract No. 1, Queens Bridge, Steel open grating bridge flooring 9840 Sq. ft.

Contract No. 2, Queens Bridge, Lumber flooring 55,120 Board feet.

Bids will be opened and read in the Freeholders Room, Court House, Somerville, N. J. on

Friday, Oct. 11, 1946 at 11:00 O'clock A. M. Prevailing Time.

Drawings, specifications and forms of bids, contracts and bond for the proposed work, prepared by O. Smith, Jr., Engineer, have been filed in the office of the said engineer at 36 North Bridge Street, Somerville, N. J., and may be inspected by prospective bidders during business hours Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and upon deposit of $10.00. Bids must be made on standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of Bridge on outside, address to Board of Chosen Freeholders of the County of Somerset and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall be not more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the supplementary specifications, copies of which will be furnished on application to engineer.

The County Engineer may in his discretion withhold the issuance of any certificate or certificates for payment whether intermediate or final until he is fully satisfied that there are no liens for labor performed or materials furnished existing against the job.

The Board reserves the right to reject any or all bids.

By order of The Board of Chosen Freeholders of the County of Somerset.

Oscar Smith, Jr.
County Engineer.

U. S. Government

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, Washington, D. C., September 9, 1946. Sealed bids (Specifications No. 1484) will be received at the office of the Bureau of Reclamation, Billings, Montana, until 10 a.m., October 7, 1946, and then publicly opened, for furnishing labor and materials and performing all work for the *excavation of tunnels, raises, and shafts and the drilling of pilot and feeler holes for the investigation of Yellowtail Damsite, Hardin Unit, Montana, Missouri Basin Project.* The work is situated on the Big Horn River in Big Horn County, Montana, in the vicinity of Hardin, Montana. The principal items of work and the estimated quantities involved are as follows: Schedule No. 1, Exploration of Tunnel 1-L—75 cubic yards of excavation, all classes, in open cut at tunnel portal; Excavating 500 linear feet of tunnel; 500 linear feet of excavation of additional length of tunnel between 500 feet and 1,000 feet from portal; 500 linear feet of excavation of additional length of tunnel between 1,000 feet and 1,500 feet from portal; 500 linear feet of excavation of additional length of tunnel between 1,500 feet and 2,000 feet from portal; 250 cubic yards of excavation, all classes, for raises from tunnel; 250 cubic yards of excavation, all classes, for shafts, from tunnel; Furnishing and erecting 3 M feet b.m. of permanent timbering in tunnels, raises, and shafts; and Drilling 500 linear feet of pilot and feeler holes. Schedule No. 2, Exploration Tunnel 1-R—75 cubic yards of excavation, all classes, in open cut at tunnel portal; Excavating 500 linear feet of tunnel; 500 linear feet of excavation of additional length of tunnel between 500 feet and 1,000 feet from portal; 500 linear feet of excavation of additional length of tunnel between 1,000 feet and 1,500 feet from portal; 200 cubic yards of excavation, all classes, for raises from tunnel; 200 cubic yards of excavation, all classes, for shafts from tunnel: Furnishing and erecting 2 M feet b.m. of permanent timbering in tunnels, raises, and shafts; and Drilling 500 linear feet of pilot and feeler holes. This invitation for bids does not cover the purchase of materials which are to be furnished by the Government. Materials to be furnished by the contractor and those furnished by the Government are described in the specifications which will be a part of the contract. The work shall be commenced within fifteen (15) calendar days after date of receipt of notice to proceed and shall be completed within one hundred and eighty (180) calendar days from the date of receipt of such notice. Bid bond.—Guarantee will be required with each bid in an amount not less than 10 percent of the amount of the bid: *Provided*, That guarantee in excess of $2,000,000 will not be required. Performance bond.—Where the total amount payable by the terms of the contract is not more than $1,000,000, a performance bond will be required in the sum of one-half of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $1,000,000 and not more than $5,000,000, the performance bond shall be in the sum of 40 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $5,000,000 and not more than $10,000,000, the performance bond shall be in the sum of 30 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $10,000,000 and not more than $25,000,000, the performance bond shall be in the sum of 20 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $25,000,000, the performance bond shall be in the sum of $5,000,000. Payment bond.—Whenever the total amount payable by the terms of the contract shall be more than $2,000 but not more than $1,000,000, the payment bond shall be in the sum of one-half of the total amount payable by the terms of the contract. Whenever the total amount payable by the terms of the contract shall be more than $1,000,000 and not more than $5,000,000, the payment bond shall be in the sum of 40 percent of the total amount payable by the terms of the contract. Whenever the total amount payable by the terms of the contract shall be more than $5,000,000, the payment bond shall be in the sum of $2,500,000. Liquidated damages for delay will be twenty-five dollars ($25) per day for each schedule for each calendar day's delay. Partial payments will be made monthly. (See Article 16 of the contract.) No charge to prospective bidders for copies of the specifications and drawings; to others $1.00 per copy, not returnable. For particulars, address the Bureau of Reclamation, P. O. Box 2130, Billings, Montana; Denver 22, Colorado; or Washington 25, D. C.

Michael W. Straus,
Commissioner.
(271)

COMMISSIONERS, D. C., Washington, September 19, 1946. Sealed proposals will be received at Room 509, District Building, until 2:00 P.M., October 31, 1946, and then publicly opened, for furnishing materials and performing the work for constructing the Superstructure for the South Capitol Street Bridge, across the Anacostia River, D. C., which consists of a steel girder superstructure with a swing span and the necessary mechanical and electrical machinery. The principal quantities include approximately 9,875,000 pounds of steel and iron products and 4,000 cubic yards of concrete. All prospective bidders are hereby notified that any bid submitted in response to this advertisement must be accompanied by a statement of facts in detail of the business and technical organization of the bidder available for the contemplated work, including his financial resources. The Commissioners expressly reserve the right to reject any bid in which the facts as to the business and technical organization, financial resources or experience of the bidder justify such rejection. Requests to Chief Clerk, Engineer Department, Room 427, District Building, 14th Street and Pennsylvania Avenue, N.W., Washington 4, D. C., for proposal form, specifications and drawings, should be accompanied by a certified check in the sum of $25.00, to insure their return in good condition. Not more than three (3) sets of drawings and specifications will be furnished to any one general contractor. EW.
(272)

EMPLOYMENT

POSITIONS VACANT AND WANTED

(See following page)

POSITIONS VACANT

STRUCTURAL DETAILER, experienced in welded fabrication design for jobbing shop, salary open. P-903, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

TECHNICAL GRADUATES (especially chemical, electrical) under 30, returned from military services have excellent opportunity for permanent place with nationwide engineering organization. After training period, work as junior engineer will include traveling for consultation among leading industrial plants. Enclose photo when answering. P-901, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

INSTRUCTOR OR Assistant Professor for subjects in Structural Engineering and Fluid Mechanics beginning December first. Full time, permanent, good opportunity for advancement. Salary $2700-3500. Teaching and professional experience desirable but less essential than natural qualifications for class room work. Send personal details including experience, salary desired and small photo to Dean of Engineering, Fenn College, Cleveland 15, Ohio.

WANTED: FIELD Office man experienced in accounting and payrolls on private construction work both lump sum and fixed fee for projects in deep South. Write Post Office Box 971, Newport News, Virginia, giving all references and experience.

WANTED: BITUMINOUS Sales Engineer under 32 years of age to work in Georgia and Florida. College degree required in Civil or Chemical Engineering. This is opportunity for energetic, capable young man to secure permanent employment. In own handwriting give age, experience, references and salary expected. Include recent photograph. P-920, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

SALES ENGINEER: living in Rochester-Syracuse-Utica area, with highway construction experience, preferably bituminous. Graduate Civil Engineering preferred but not essential. Between 30 and 40 years. Must have auto. Give experience last 10 years, salary expected. P-921, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

WANTED: ENGINEERING Draftsman experienced in refinery or heavy chemical plant equipment layout and design. Work consists of expansion of plant facilities, layout and design of conveyors, vessels, power house and general piping, tanks, structural steel and similar installations. Contact the Mathieson Alkali Works, (Inc.), P.O. Box 896, Lake Charles, Louisiana, giving full particulars, salary expected, etc.

ENGINEERS, CIVIL, Sanitary, Structural. Consulting firm requires men with experience in preparation of plans for sanitary engineering projects or in work of similar nature. Permanent connection for men of acceptable qualifications. Please furnish complete record of experience, references and statement of approximate salary requirements. P-922, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

WANTED: STRUCTURAL Designers with and without experience. Elwyn E. Seelye & Co., 101 Park Avenue, New York.

STRUCTURAL DESIGNERS and detailers for a depressed urban type expressway and for a major program of parkway and highway bridges, and railroad and highway grade separations, in the Detroit area. Structures include rigid frame, continuous and simple spans in steel and reinforced concrete. Induction rates are $2,580, $3,180, $3,660 and $4,140 in the four classifications open. Rates are based on 40-hour week (premium pay for overtime). Comparable automatic annual step raises for each classification. In reply give age, education, experience, reference, snapshot photograph, sample of drafting and other data available. P-923, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

STRUCTURAL CHECKERS: detailers steady employment. Ralph Rinker, 572 Bellevue Ave., Trenton, New Jersey.

(Continued on page 28)

EMPLOYMENT OPPORTUNITIES

RATE: 15 CENTS A WORD, MINIMUM CHARGE $3.00

Positions Wanted (full or part time individual salaried employment only), ½ the above rates, payable in advance.

Box Numbers in care of any of our New York, Chicago or San Francisco offices count 10 words additional in undisplayed ads.

Discount of 10% if one payment is made in advance for four consecutive insertions of undisplayed ads (not including proposals.)

Copy for new advertisements received until 10 A. M. Friday for following Thursday's issue

POSITIONS VACANT

(Continued from page 27)

SANITARY ENGINEER: experienced in design of sewage treatment plants. Well qualified man capable of detail designing required. State qualifications, experience and salary requirement. Lansing Township Engineer, 520 Glendale St., Lansign 10, Mich.

WANTED: EXPERIENCED structural steel and miscellaneous iron detailer and checker. Permanent employment in small fabricating plant in Detroit, Michigan. State complete record of experience, education and salary requirements. P-942, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CHIEF ENGINEER salary $7500 per year; location Western New York; must be thoroughly experienced structural steel detailing also masonry; be able interview and sell clients; not over 45 years; give full and complete details in first letter enclose photo. P-943, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

SECRETARY OR manager with experience in negotiating agreements and doing collective bargaining in the building industry. Also engineering background, civil and structural if possible. P-944, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CARPENTER FOREMEN
LABOR FOREMEN
for
HEAVY INDUSTRIAL CONSTRUCTION

- **Work being performed throughout the country. Good pay and long term employment for experienced, qualified persons.**
- **Must be willing to travel and be members of A.F.L. Building Trades Unions.**
- **Reply, giving full details as to past experience, references, date of availability and starting salary requirement.**

THE H. K. FERGUSON CO.
1650 Hanna Bldg., Cleveland 15, Ohio

WANTED
REINFORCED CONCRETE
DRAFTSMEN

Experience on Dam and Power Plant work desirable. Apply giving experience, salary expected and how soon can report.

CHAS. T. MAIN, INC.
P. O. Box 297 **Augusta, Ga.**

SANITARY ENGINEERS
CIVIL ENGINEERS

Permanent Positions open for Engineers experienced in the design of water and sewage treatment plants by large consulting engineering organization. State qualifications, experience and salary requirements.

P-931, Engineering News-Record
330 West 42nd St., New York 18, N. Y.

POSITIONS WANTED

GRADUATE ENGINEER: Civil and Mining, 35, ten years experience in highway and mining engineering. Presently employed at $4296. Wish position in west with chance for advancement. PW-908, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

GENERAL SUPERINTENDENT and Manager: Supervision of jobs, preparing bids, sub-contracts, construction methods, and management of general contracting business. Sound practical background of over twenty years in heavy and building construction with contractors. Experience all usual types of buildings, bridges, underpasses, piling, and related structures. Good record on competitive bid, speed, and cost plus work contracts. Graduate civil engineer. Married, in good health, energetic and conscientious worker. Want job with good possibilities for future. Location immaterial. PW-896, Engineering News-Record, 510 N. Michigan Ave., Chicago 11, Ill.

STRUCTURAL DESIGN ENGINEERS

Thoroughly experienced in the design of structural steel, reinforced concrete and foundations, for industrial buildings and structures.

These are permanent positions immediately available and offer excellent opportunities with large chemical company in Texas. Salary commensurate with training and experience. Give complete details of past experience, education, society memberships or licenses now held. Applications by letter or conference.

ADDRESS:

PERSONNEL DIRECTOR
THE DOW CHEMICAL COMPANY
Freeport, Texas

ASSISTANT CONTRACT MANAGER

Old established building construction firm, New York City, with excellent reputation for over 50 years, has opening for a man whose duty it would be to produce new business. C.E. degree while desirable, would not necessarily be essential. Company has handled successfully both lump sum and cost plus contracts. Age of between 25 and 30 would be desirable. Applicants will mail a record of experience, education and salary requirements. All replies will be held confidential. Answer

P-939, Engineering News-Record
330 West 42nd St., New York 18, N. Y.

SALES ENGINEER

Young man, experienced in structural steel fabrication, to be capable of making estimates, design mill type buildings, and to handle sales work at such time as market conditions require. Good opportunity for right man in rapidly growing structural fabricating plant located in the South. Advise experience and salary desired. Address

P-940, Engineering News-Record
330 West 42nd St., New York 18, N. Y.

SHOP SUPERINTENDENT

Man, experienced in structural steel fabrication to act as superintendent of medium size fabricating shop located in the South. Experience at handling fifty or more workers essential. Advise experience and salary desired.

Address

P-941, Engineering News-Record
330 West 42nd St., New York 18, N. Y.

POSITIONS WANTED

GENERAL FOREMAN: 25 years experience. Complete charge of all types of concrete construction. Placing and handling. Batching and crushing plants, etc. Member A.C.I. PW-913, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONSTRUCTION EXECUTIVE: Engineer. Many years diversified experience in construction of all types. Take full responsibility of organization and operation of many projects in his stride. Knows how to secure and expedite materials and get things done. Salary requirements $10,000.00 plus percentage of profits. Desires full responsibility and security. East Coast preferably. PW-925, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

BUILDING CONSTRUCTION Executive, 2[illegible] years experience; thoroughly understands estimating, pricing, sub-letting, purchasing and management. Can manage a project from receipt of plans to final payment. PW-927, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ESTIMATOR: 22 years experience industrial and public work engineer available in one week. PW-945, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONTRACT ENGINEER industrial building desires voluntary change covering N. Y. N. J. experienced, excellent contacts, available one week. PW-946, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

MECHANICAL ENGINEER: age 41, 5 years chemical plant layout and design, 10 years diversified engineering, 3 years maintenance and machine shop work, experience in supervisory men. PW-947, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

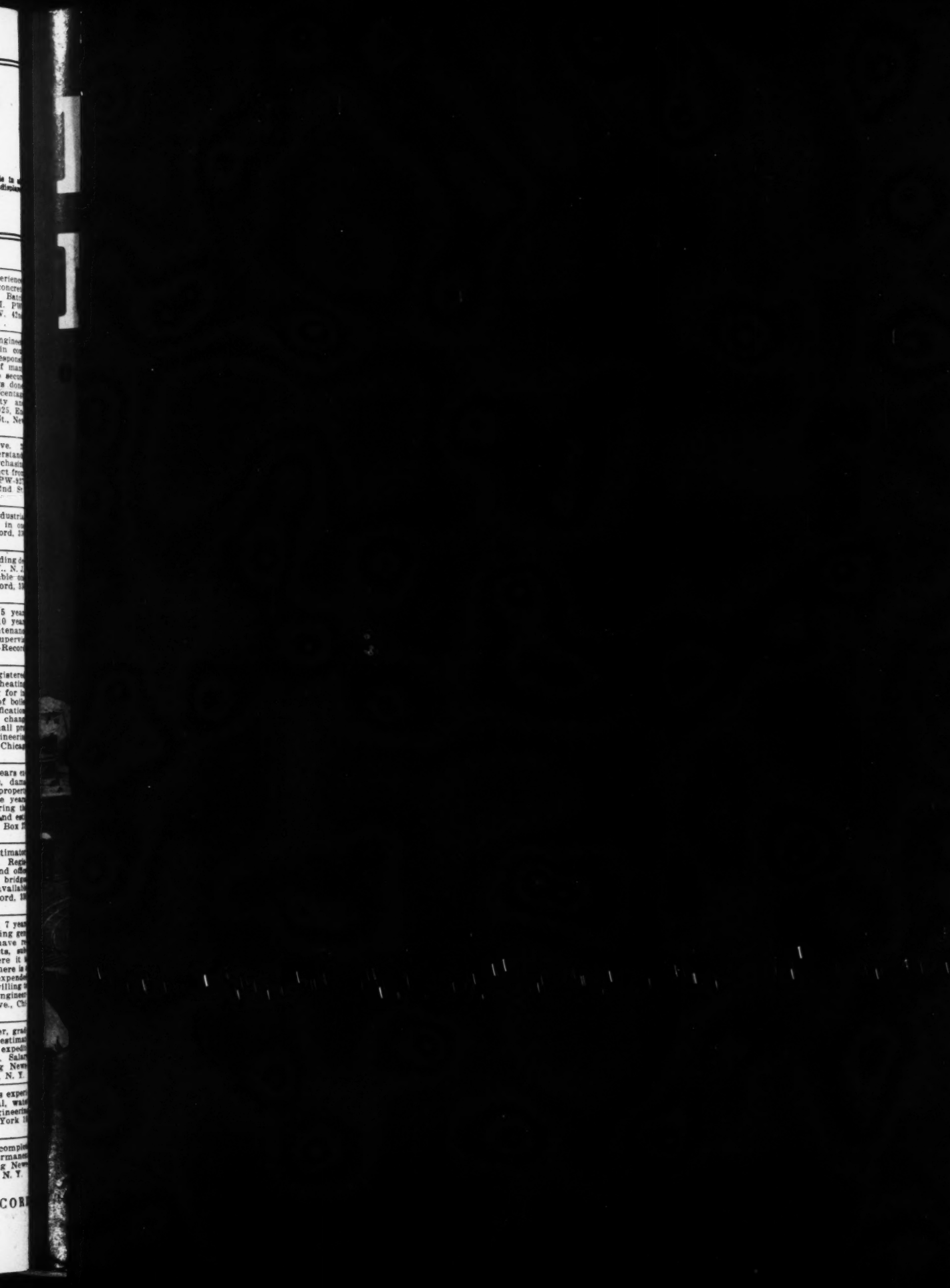
MECHANICAL ENGINEER: 38, registered Mem. A.S.M.E., 20 years experience heating, ventilating, air conditioning, plumbing for industrial and public buildings, design of boiler plants; full charge of design and specifications for complete projects. Contemplating change for right opportunity with large or small progressive organization. PW-948, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CHIEF OF Surveys, age 39. Fifteen years experience on roads, streets, bridges, dams, tunnels, topographic mapping, and property surveys. In charge of work last nine years. Capable of organizing and administering the job from reconnaisance to final plans and estimates. Any location considered. P. O. Box [illegible] Tunkhannock, Pa.

FIELD ENGINEER: Superintendent, estimator, project manager. Associate A.S.C.E. Registered Civil Engineer. 25 years field and office experience on buildings, roads, sewers, bridges and water fronts. Free to travel, available now. PW-949, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER: registered, age 28, 7 years experience field, design, and estimating general building construction. Duties have required dealing with business contacts, sub-contractors, etc. Prefer position where it is possible to share in profits or where there is a direct relationship between efforts expended and returns received. If required am willing to make a token investment. PW-950, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONTRACTORS OR architects engineer, graduate, over 30 years wide experience estimating, specification writing, purchasing expediting, building and general construction. Salary $100 per week. PW-951, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER: graduate, 37 years experience; design, construction, industrial, water supply, hydro-electric. PW-952, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ESTIMATOR - ENGINEER: take complete charge of gen. contractors office. Permanent connection only. PW-953, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.